Link View HNVR9

Hybrid NVR 9 channels

User Guide

Please find the latest version of the manual and firmware at www.linkcom.fr

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INSTRUCTION MANUAL

To obtain the best performance and ensure device function correctly, please read this instruction manual carefully and completely.

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OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

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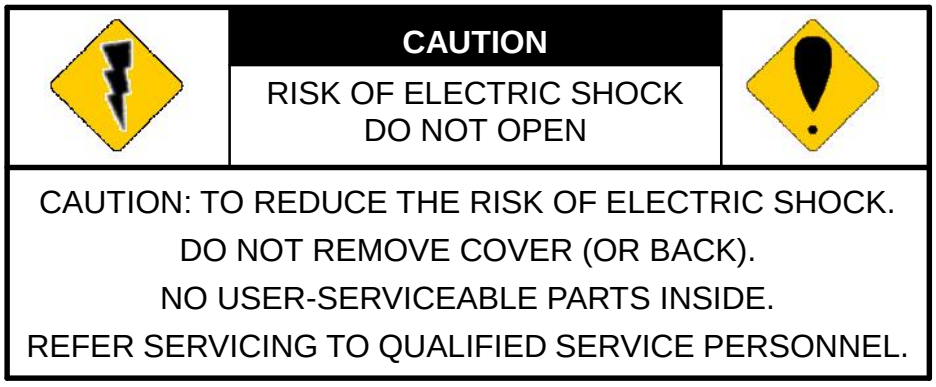
WARNINGS, CAUTIONS & COPYRIGHT

WARINGS

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MISTURE.
DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

CAUTION


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Explanation of Graphical Symbols

	The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of insinuated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral rhombus is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.

USERS OF THE SYSTEM ARE RESPONSIBLE FOR CHECKING AND COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND STATUTES COIPCERNING THE MONITORING AND RECORDING OF VIDEO AND AUDIO SIGNALS. LINKCOM SHALL NOT BE HELD RESPONSIBLE FOR THE USE OF THIS SYSTEM IN VIOLATION OF CURRENT LAWS AND STATUTES.

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1 INTRODUCTION

1.1 FEATURE

- Support H.264 / MPEG4 / MJPEG decoding & H.264 encoding.
- Support up to 9-channel IP cameras input.
- Support up to 8-channel analog cameras input.
- Analog camera recording rate up to 120 PPS @ D1.
- Real-time Display & Playback.
- Support 5 Megapixel IP Camera for each channel.
- Audio：4 in & 1out.
- Support HDDs x4.
- HDD damaged block detection & temperature alarm system (HDD S.M.A.R.T).
- Support Pre-alarm recording.
- Support Privacy Mask.
- Support e-SATA interface.
- Support HDMI Video interface .
- Graphic User Interface (GUI).
- Support time-point backup function under Ethernet remote control mode. User can select any time period to process backup from remote side.
- Support time-search & event-search function under Ethernet remote control mode.
- Up to four online clients for independent remote control; individual live-time, play-back & time-search function available
- Support PPPoE/ Static/ DHCP IP & DDNS.
- Powerful mobile surveillance function, support i-Phone & Android

1.2 SPECIFICATION

MODEL		**HBR-09EE**
System		
OS		Embedded Linux
connector	**Ethernet**	RJ-45, 10/100/1000 Mbps x1
	VGA output	D-SUB output
	HDMI output	HDMI output
	USB 2.0	Front : 2 ports
Power		DC-12V, 5A
Video and Audio		

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Video input (IP cam, Max)	9 channels
Video input (Analog, Max)	8 channels
Audio input	4 channels
Audio output	1 channel
Hybrid DVR Functions	
Camera Name	Max. 20 characters
Screen Split Control	1, 4, 9
Image Control	Contrast / Brightness / Saturation / Hue
Recording mode	Manual / Schedule / Alarm
Pre Recording	1~5 sec
Watermark	Support
Searching and Playback	
Search Method	Date / Time / Event
Date/ Time / Event Search	Selectable on the calendar
Log Search	Through the log data to find the video event / time
Backup Type	USB
Remote Client Software	
Monitoring Environment	Link View for iPhone / iPad /Android, Web site
IP / Analog cam Live View	9 Channels
Remote Search	Web site remote time / event search
System Monitoring and Recovery	
Monitoring	Watchdog
Alarm	
Alarm Input	8 inputs
Alarm output	1 outputs
Peripheral Devices	
Audio in	3.5 Ø Earphone stereo jack / RCA x4
Audio out	3.5 Ø Earphone stereo jack
RS 485	2- pin terminal
STORAGE & BACKUP DEVICE	
INTERNAL HDD SUPPORT	SATA HDD x 4
EXTERNAL USB BACKUP DEVICE (PAN	USB x2

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DRIVE, HDD, BURNER)	
E-SATA	x1
RAID	N/A
Networking	
Type	Static/ DHCP/ PPPoE/DDNS
Environment	
Operating Temp.	0 - 45 ℃ / 32~113 F
Humidity	0~80% RH (non-condensing)
Language	
Type	English / Traditional Chinese / Simple Chinese / Russian / Italian / Japanese / Czech / France / Germany / Spanish /
Physical	
Dimensions (W x H x D)	360 x 60 x 311 mm
Weight	4 KG

*** SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE**

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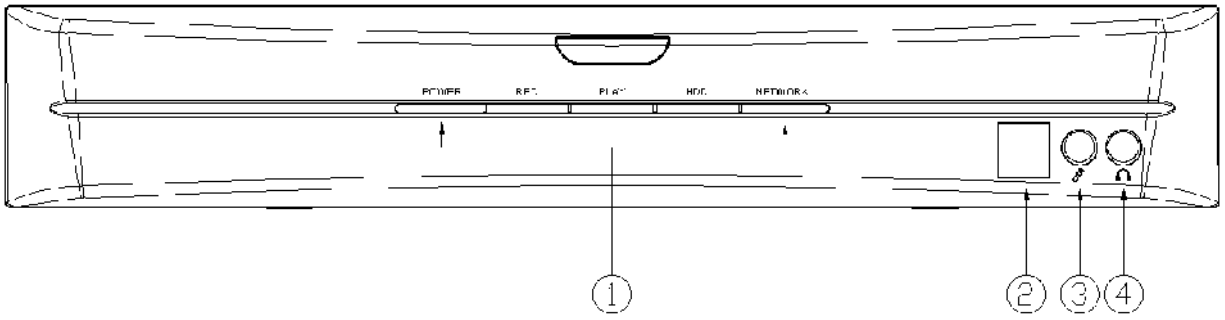
2 HARDWARE OVERVIEW

2.1 FRONT PANEL



Hybrid DVR OPERATION

NO.	LABEL	OPERATION
1	LED	Led Indicator
2	/	USB Connector/ USB Mouse Connector
3	MIC IN	Microphone input(Phone Jack)
4	AUDIO OUT	Earphone output(Phone Jack)

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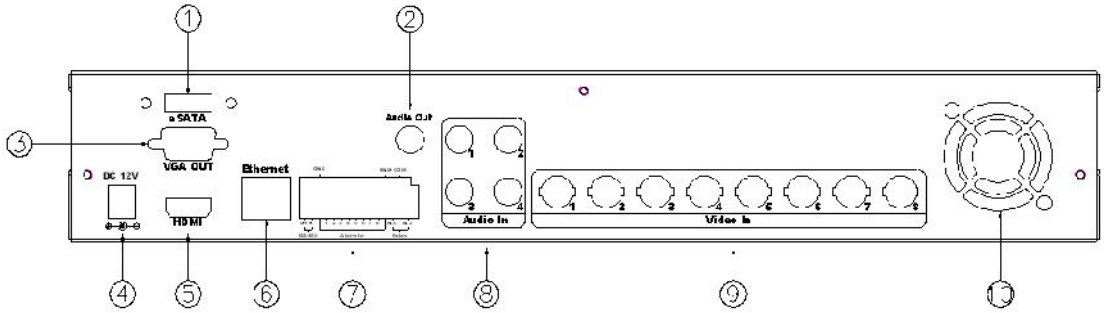
BACK PANEL



NO.	LABEL	OPERATION
1	**E-SATA**	E-SATA interface
2	**AUDIO OUT**	Audio Output
3	**VIDEO OUT (VGA)**	Connect to LCD monitor
4	**POWER**	Connect to power adapter (AC 12V/5A)
5	**VIDEO OUT (HDMI)**	HDMI video output
6	**ETHERNET**	RJ-45 connector
7	**ALARM IN/ RELAY OUT/ RS-485**	8 alarm in/ 1 relay out/ RS485
8	**AUDIO IN**	Audio input
9	**VIDEO IN**	BNC video input
10	**FAN**	The fan louvers

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2.2 CAMERA & MONITOR LOOPING

Here recommend link cameras by sequence to avoid unexpected image broken, from CH1, CH2, CH3, CH4…….

2.3 ALARM TRIGGER

There are three types of alarms: Motion detection, Video Loss Alarm, and External Alarm. Following are the possible action when alarm is triggered. Every action is configurable (Ex. the screen display pattern, the relay triggered time.etc) and will be explained in the later chapter.

A. When Motion detection happens:

a. The live screen pattern can be switch to single channel screen or split screen.
b. External relay/ built-in buzzer can be triggered.
c. Alarm timepoint can be recorded in the event list, and you can search for the event in playback.
d. On the channel which the alarm triggered, the icon pops up to remind the user.
e. The pre/ post-alarm recording video can be sent to e-mail/ uploaded to FTP.
f. CGI can be sent to an http server.

B. When External Alarm happens:

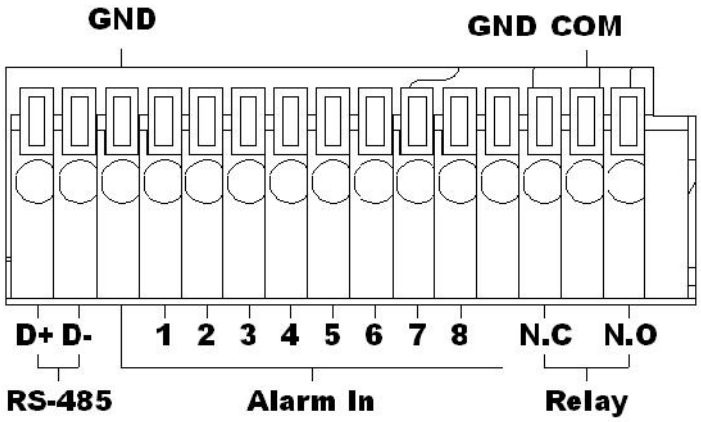
a. External relay/ built-in buzzer can be triggered.
b. Alarm timepoint can be recorded in the event list, and you can search for the event in playback.
c. On the channel which the alarm triggered, the icon pops up to remind the user.
d. The pre/ post-alarm recording video can be sent to e-mail/ uploaded to FTP.
e. CGI can be sent to an http server.

C. When Video Loss Alarm happens:

a. External relay/ built-in buzzer can be triggered.
b. Alarm timepoint can be recorded in the event list, and you can search for the event in playback.
c. On the channel which the alarm triggered, the icon pops up to remind the user.

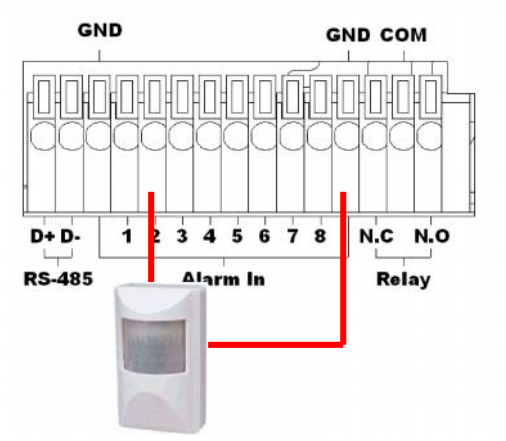
CGI can be sent to an http server.

D. Alarm in connecter

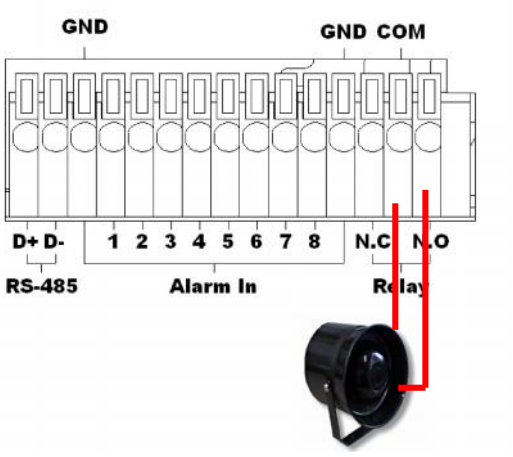


D+	RS-485: sends +/ receives +
D -	RS-485: sends -/ receives -
GND	Ground
ALARM IN 1-8	Alarm input
N.C	Relay: Normally close
N.O	Relay: Normally open
COM	Relay: Common

EX1：Connect GND & Alarm to external IR detector.



EX2：Connect N.O & COM to external siren.



Depending on the external device type,
You may connect N.C & COM to external device.

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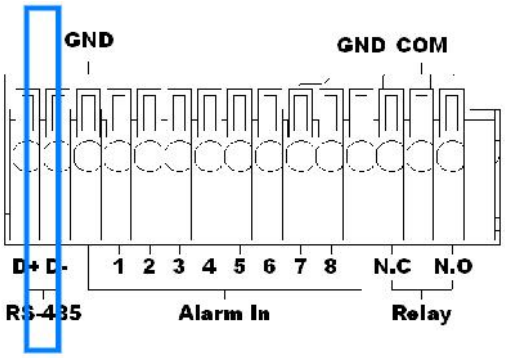
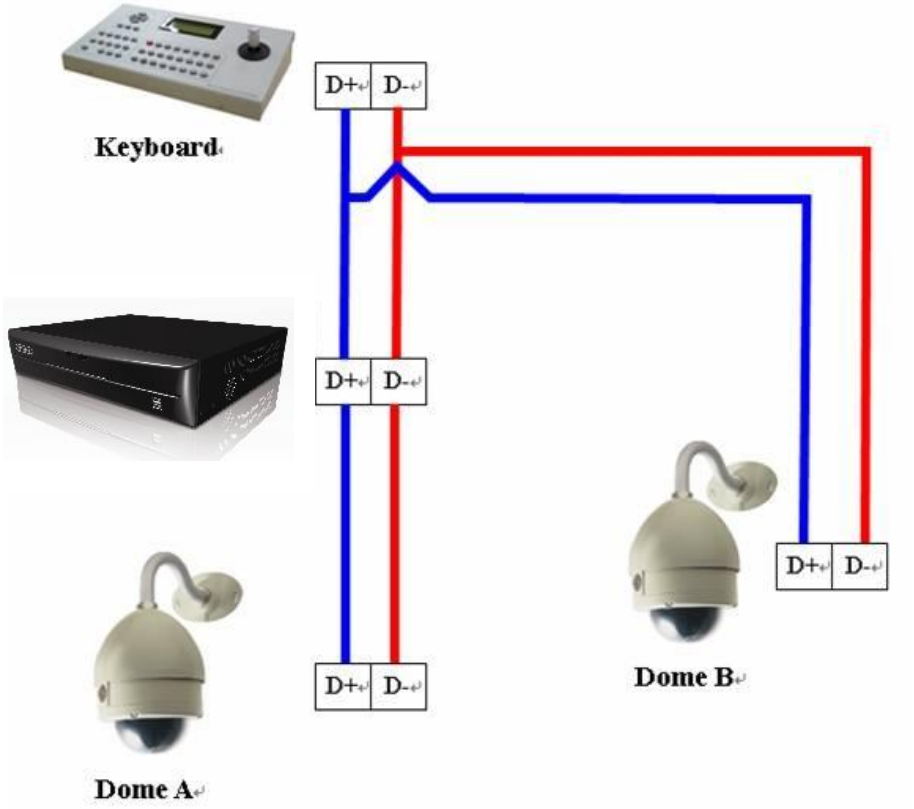
2.4 PTZ (PAN, TILT AND ZOOM) CAMERA

Following diagram for HYBRID DVR connect between PTZ camera & joystick controller, for HYBRID NVR to control PTZ camera please make sure the CAMERA ID, BANDRATE (default at 9600 bps) and RS-485 cable.

2 CORE



Under “Two Core” connection, controller can control speed dome without integrated protocol into HYBRID DVR. Moreover, one keyboard can connect MAX 256 units of speed dome.



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3 SYSTEM SETUP

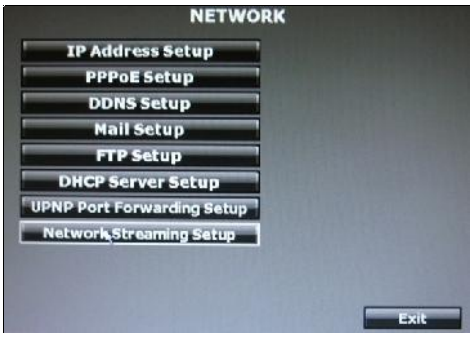
3.1 MENU SETUP INTERFACE(GUI)

A. CAMERA SETUP

B. RECORD SETUP

C. ALARM SETUP

D. NETWORK SETUP



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E. AUTHORITY SETUP

F. DISK MANAGEMENT

G. SYSTEM SETUP

H. EXIT

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3.2 LIVE VIEWING AND POP-UP MENU

Tick the box

to fix the function panel on right side. Untick it, then the function panel will be hidden when the mouse moves away.

A. **GUI MENU BAR**

With live viewing mode, press this button to get into the GUI menu.

B. DISK INFORMATION

With live viewing mode, press this button to display disk information.

C. DIGITAL ZOOM

In the live full screen mode, left-click the button of the mouse to pull a range to zoom in or zoom out the image. User can right-click the button of the mouse to disable this function. (NOTE: Using the mouse to operate digital zoom can zoom in to max. 16 times.) Moreover, user can also use ZOOM key on the front panel to perform this function. (First, click ZOOM Key and then click ▲▼◄► key to select zoom in or zoom out position. Finally, click ENTER key to complete the setting. Moreover, click

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ZOOM Key again can disable digital zoom function. Using the panel key to perform zoom in function is fixed at 2 times.)

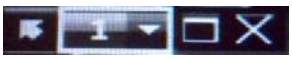
D. PTZ CONTROLLER

Within live-viewing mode, Clicks this button to get into the PTZ setup menu. User can right-click the button of the mouse to exit PTZ Setup.

NOTE： Only for the camera supported PTZ function.

PTZ CONTROL

Press the minimization icon then the control panel becomes smaller:



Move the mouse and the arrow will follow the mouse and change direction. In this mode user can click on the live view to control direction instead of the direction key on control panel.

When a analog camera is connected, you can set up by clicking the tools icon:

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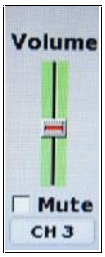
E. **AUDIO VOLUME**

Press this button, and the audio volume control board will pop up.



F. **AUTO SWAP**

Press it to start auto swap. The interval depends on the setting in IPCam Image Setup when it's on single channel view. For split screen the switch dwell interval is 5 sec

G. **DISPLAY CONTROL**

Within live-viewing or playback mode, use display control to switch the camera channel.

H. **RECORD AND PLAYBACK CONTROL**

Same as front panel controller and remote controller.

I. **SOUND OUTPUT / PTZ CONTROL**

There are little icon on the right top of the live vide of every channel. Click to enable the sound output. Click to PTZ call out the control board. Note that if those functions are not support by the camera linked, you will not see the corresponding icons.

The sound options do not affect the audio recorded into playback video. As long as the audio setup is enabled, the playback video includes audio even the sound output here is turned off.

J. RECORDING STATUS

Beneath the date and time, it displays the current recording type:

Record mode: Schedule – NO REC period	

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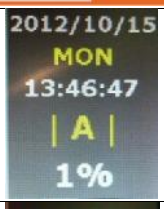
Record mode: Schedule – ALARM REC period Record mode: Alarm trigger	
Record mode: Manual – Stop Recording	
Record mode: Schedule – FULL REC period Record mode: Manual – Recording	

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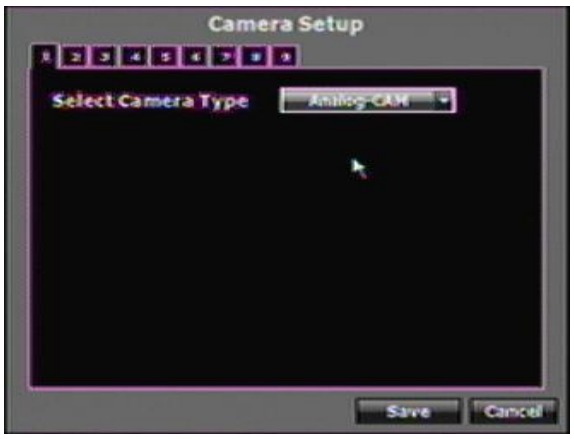
3.3 CAMERA SETUP

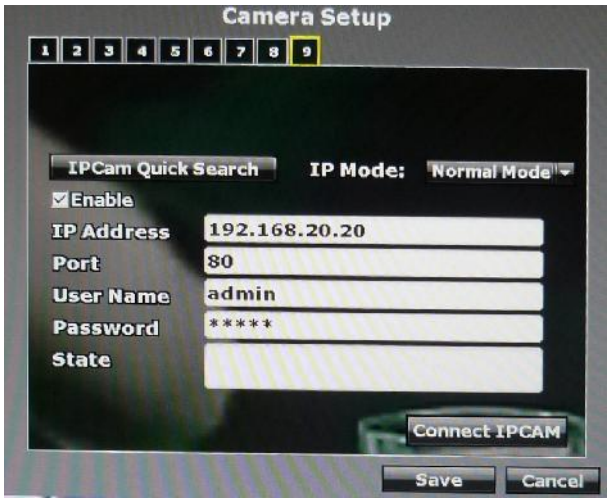
A. Camera Setup

Hybrid DVR can connect two various cameras, analog camera or IP-Cam.

Camera Type in Analog-CAM



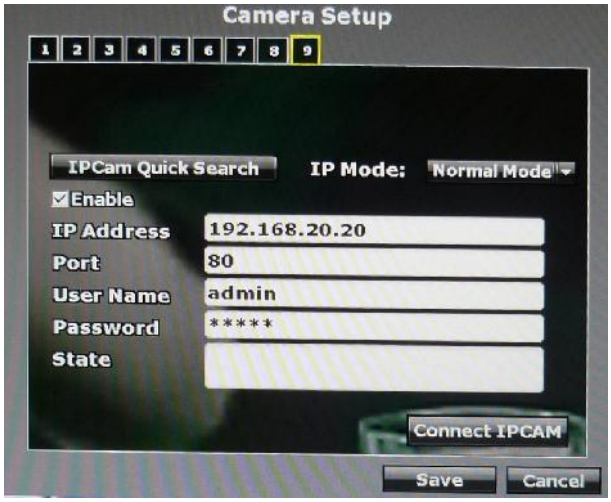
Camera Type in IP-CAM



A-1. IPCam Quick Search

Press the “IPCam Quick Search” button and click “Search Device” button in the following, DVR will search the IPCAM devices which IP address are setup as the same domain as DVR IP address. Moreover, click the IPCam device which from the list can import the device information to the channel automatically without any manual key-in step.
The IPCam has to be under the same LAN with DVR in order to connect successfully. Ex. If DVR IP address is 192.168.10.33, IP Cam IP address should be 192.168.10.X. You can edit IP Cam IP address here or on the IP Cam.

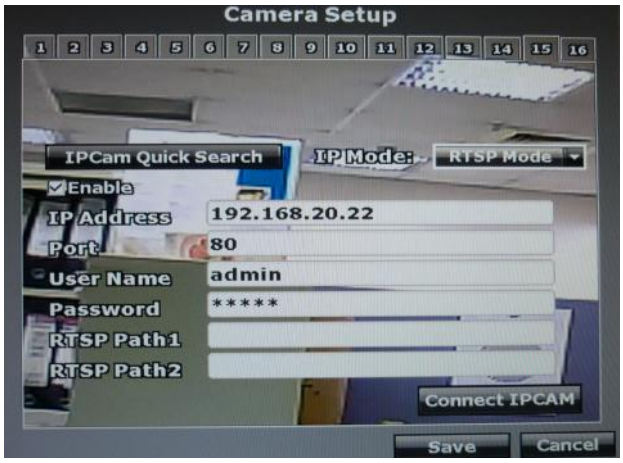
a. Normal Mode



Enable this channel. Key in the IP address, port, username, and password of the device you prepare to connect. You can find the information on the IP Cam.
Click the “connect IPCAM” button, the message will show in “State” column to tell you whether connection succeeds or not.
Note: To the camera connected via ONVIF protocol, the PTZ control function is not supported. Note: To the camera connected via ONVIF protocol, the PTZ control function is not supported.

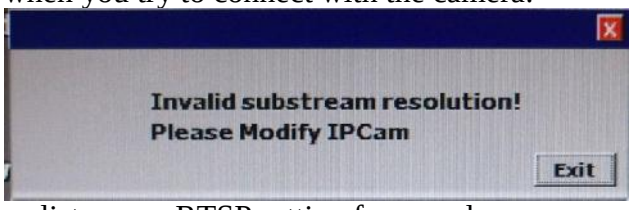
b. RSTP Mode

Under RTSP Mode, the DVR only support the IP address indication, the live video, and video recording. Other functions like motion detection are not supported.



Key in the IP address, port, username, and password of the device you prepare to connect. You can find the information on the IP Cam.
To link to the IP camera, check the RTSP Path settings of your IP camera, and key in the corresponding values of two streams in “RTSP Path 1” and “RTSP Path 2”.

Note: When you select RTSP mode, make sure the substream resolution of camera is VGA(640x480). Or you will receive the warning message when you try to connect with the camera:



Here we lists some RTSP setting for sample:

RTSP Path 1 (IPCam Main stream)	**RTSP Path 2 (IPCam Sub stream)**	**Result**
1920 x 1080	640 x 480	OK. DVR takes 1920x1080 streaming for single channel view, and 640x480 streaming for split screen.
1920 x 1080	N/A (Fill in nothing on "RTSP Path 2")	Error Message: ”Invalid Substream Resolution! Please modify IPCam.” DVR takes 1920x1080 streaming for both single channel view and split screen. However, it can only allow 640x480 resolution for split screen, so it shows error in return.
640 x 480	N/A (Fill in nothing on "RTSP Path 2")	OK. DVR takes 640x480 streaming for both single channel view and split screen.
N/A (Fill in nothing on "RTSP Path 1")	640 x 480	OK. DVR takes 640x480 streaming for both single channel view and split screen.

640 X480	1920 x 1080	OK. DVR takes 1920x1080 streaming for single channel view, and 640x480 streaming for split screen.
1920 x 1080	1920 x 1080	Error Message: ”Invalid Substream Resolution! Please modify IPCam.” DVR takes 1920x1080 streaming for both single channel view and split screen. However, it can only allow 640x480 resolution for split screen, so it shows error in return.

c. ROI

This function allows users to set up the channel as an attached channel. An attached channel is based on a normal/ RTSP channel has been set up, and can display the same live view as the normal/ RTSP channel. The attached channel is not physically linked to any camera, so it doesn't increase the bandwidth loading. Users cannot do camera setup (like motion detection or image adjustment) on attached channel.

1. Enable: Choose “Attached”.
2. Attached Channel: Select a connected normal/ RTSP channel in the drop-down menu.

Ratio: Use the arrows to adjust the zoom ratio, and press the red frame to drag it to the area that you want it to show on the live view screen.

A-2. Connect IPCAM：After insert the IPCAM related information, click this button to test the connection circumstances.

Note: To the camera connected via ONVIF protocol, the PTZ control function is not supported.

B. Video Setup

Camera Type in Analog-CAM

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Camera Type in IP-CAM

B-1. Resolution

Click drop down list to change the resolution of connecting device.

B-2. Quality

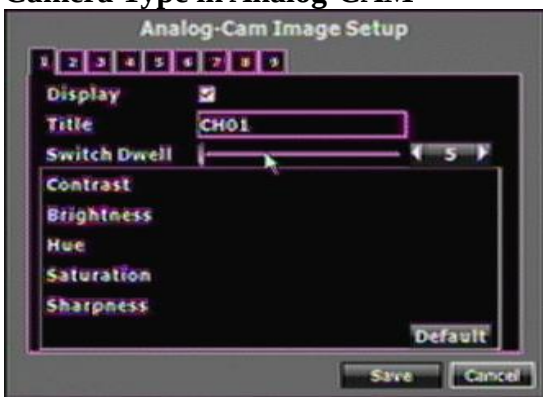
Click drop down list to change the image quality. For this 9ch model, the total bits per second should not be over 36Mbps.

B-3. FrameRate

Click drop down list to change the frame rate of connecting device.

C. IPCam Image Setup

Camera Type in Analog-CAM



Camera Type in IP-CAM

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C-1. Display

Use the mouse to enable or disable the camera display on the screen or not.

C-2. Switch Dwell

Press ◄ or ► to change auto switch second. The value is between 0~99 sec.

C-3. Title

Use the mouse to setup the title of connecting IP device.

C-4. Contrast

Press ◄ or ► to change contrast level. The adjustment value is between 0~255

C-5. Brightness

Press ◄ or ► to change brightness level. The adjustment value is between 0~255

C-6. Hue

Press ◄ or ► to change hue level. The adjustment value is between 0~255

C-7. Saturation

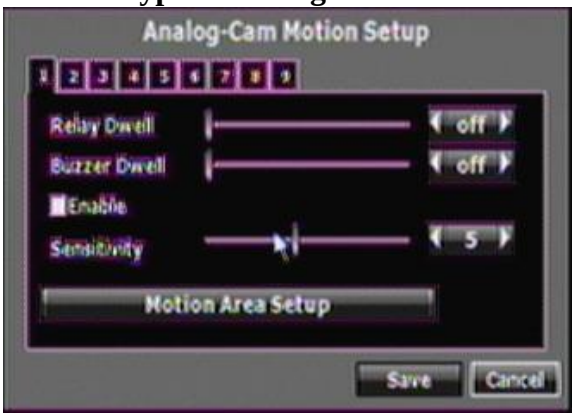
Press ◄ or ► to change saturation level. The adjustment value is between 0~255

C-8. Sharpness

Press ◄ or ►/ mouse wheel to change sharpness level. The adjustment value is between 0~15

D. Motion Setup

Camera Type in Analog-CAM



D-1. Relay Dwell

Press ◄ or ► to change the relay time or disable relay function.

D-2. Buzzer Dwell

Press ◄ or ► to change the buzzer time or disable buzzer function.

D-3. Motion Detection

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Click the checkbox to decide enable or disable motion detection.

D-4. Sensitivity

Press ◄ or ► to change sensitivity level.

D-5. Motion Area Setup

Press

to setup motion area.

Camera Type in IP-CAM

D-6. Relay Dwell

Press ◄ or ► to change the relay time or disable relay function.

D-7. Buzzer Dwell

Press ◄ or ► to change the buzzer time or disable buzzer function.

D-8. Area1 Sensitivity

Press ◄ or ► to change the sensitivity of setup motion area in Area1. Click "Motion Area Setup" and drag a blue area for motion detection.

D-9. Area2 Sensitivity

Press ◄ or ► to change the sensitivity of setup motion area in Area2. Click "Motion Area Setup" and drag a green area for motion detection.

D-10. Area3 Sensitivity

Press ◄ or ► to change the sensitivity of setup motion area in Area3. Click "Motion Area Setup" and drag a red area for motion detection.

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After dragging an area, right-click the mouse, select “Exit with saving” to complete the area setup.
Select “Enable All” to set up global motion detection.
Select “Clean All” to clean the area of the current color in the view.
Select “Exit Without Saving” to go back to motion setup menu and the setting you just changed will not be saved.

E. Privacy Setup

Camera Type in Analog-CAM

Camera Type in IP-CAM

E-1. Area1

Tick the “Area1” box and click “Area Setup” to drag a blue area for masking.

E-2. Area2

Tick the “Area1” box and click “Area Setup” to drag a green area for masking.

E-3. Area3

Tick the “Area1” box and click “Area Setup” to drag a red area for masking.

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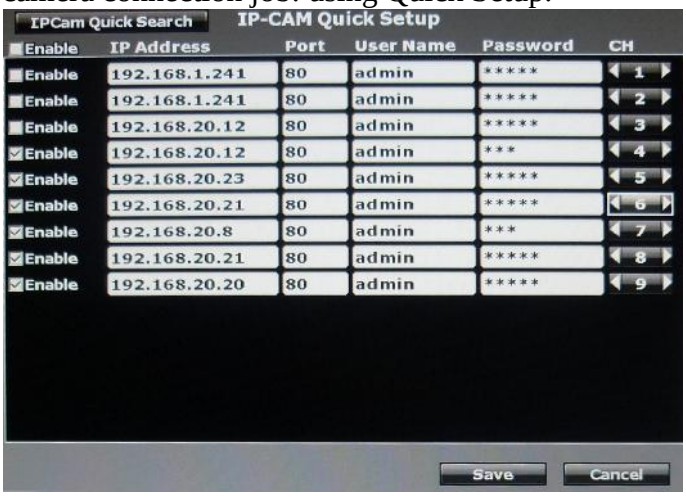
F. Audio Setup

The channel ticked means the sound from camera will be recorded into the playback video. Vise versa. No sound will be recorded in the playback video of the channel which is not ticked. It supports at most 4CH audio record.

G. Quick Setup

Other than "IPCAM Setup", you can choose another way to complete the IP camera connection job: using Quick Setup.



G-1 Key in information manually

Here is the all-channel list. You can key in the IP address, port, and user name

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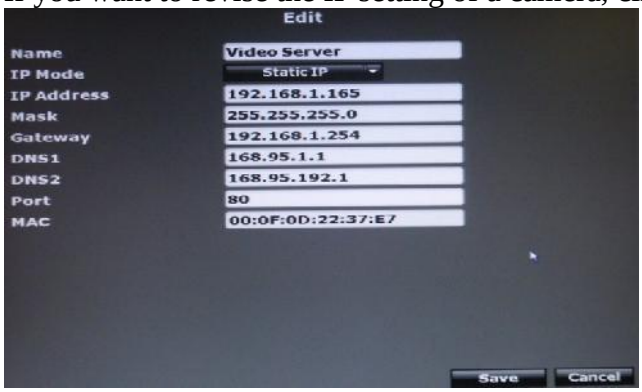
& password of the IP camera, and then assign the channel number. Tick "Enable" to connect with the IP camera.

G-2 IPCAM Quick Search

With Quick Search, you need not type the IP address. Click "IPCAM Quick Search" to enter the search menu.

The machine searches for all the IP devices under the LAN and list here. Find the IP camera you want to connect with, assign a channel number for it, and tick "Enable" so that this IP camera will be added to the all-channel list.
Back to the all-channel list, you can key in the user name and password, and tuck "Enable" to connect with the camera.
If you want to revise the IP setting of a camera, click "Edit":



The IPCam has to be under the same LAN with DVR in order to connect successfully. Ex. If DVR IP address is 192.168.10.33, IP Cam IP address should be 192.168.10.X. You can edit IP Cam IP address here or on the IP Cam.

3.4 RECORD SETUP

A. Post-Alarm Record Time

Press ◄ or ► to switch the recording time of post-alarm. That's the recording length when alarm is triggered.

B. Mobile Streaming Setup

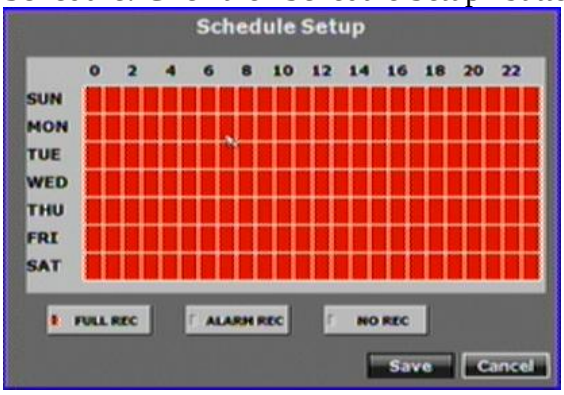
Press on to record the streaming for mobile viewing.

C. Record Mode

Use the drop down list to switch the recording mode. There are manual, schedule and alarm trigger three varieties of mode.

Manual: Click and button on the right bottom of live viewing to start and stop the manual record.

Schedule: Click the "Schedule Setup" button to set the schedule recording time.



Alarm trigger: When the alarm trigger is detected, it start recording as the alarm setting.

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3.5 ALARM SETUP

A. Alarm Trigger Setup

A-1. Alarm Auto Switch

Use the drop down list to switch the alarm auto switch. When the alarm is triggered, the screen will switch to full screen, split screen (9CH split screen) or disable.

A-2. Video Loss Detection

Use the drop down list to switch the video loss detection. When the video loss is detected, the alarm will trigger.

A-3. Ext Alarm Detection

Use the drop down list to switch the Ext Alarm Detection. When the external alarm is detected, the alarm will trigger.

A-4. Ext Alarm Mode

Choose normally open or normally close according to the external devise type.

A-5. HDD Temp. Warning

Use the drop down list to turn on or off the HDD Temp. Warning. When the HDD temperature is too high, the alarm will trigger.

B. Alarm Output Setup

This control item separates into two parts, “Buzzer Time” and “Relay Time”. User can

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press ◄ or ► to switch ext. alarm buzzer time and video loss buzzer time in “Buzzer Time” option. The adjustment value is from 5 to 99 seconds. Moreover, among “Relay Time” option, the user can press ◄ or ► to switch ext. alarm relay time and video loss relay time. The adjustment value is from 5 to 99 seconds as well.

C. Alarm Event Setup

There are seven sort of events can be selected. When the selected items are happened and triggered, the event will be recorded in the event list.

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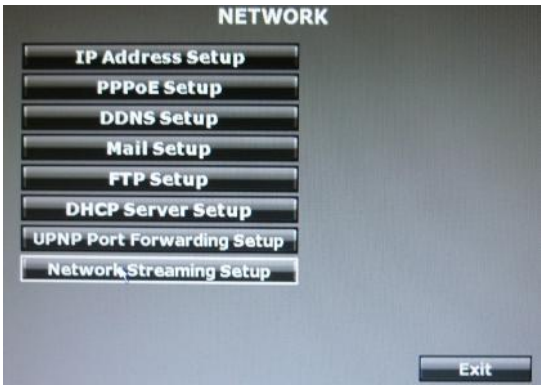
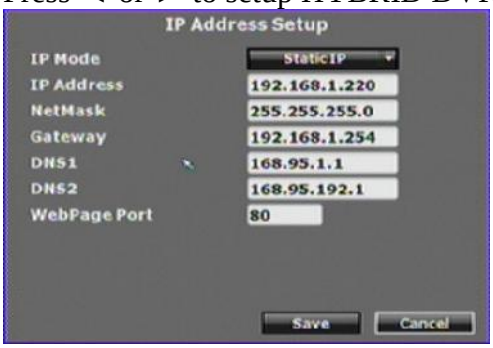
3.6 NETWORK SETUP



A. IP ADDRESS SETUP

Press ◄ or ► to setup HYBRID DVR IP address.



A-1. IP Mode

Press drop down list to change IP mode to STATIC IP or DHCP.

A-2. IP Address

Use the virtual keypad to setup the HYBRID DVR IP ADDRESS.

A-3. Network

Use the virtual keypad to change SUBNET MASK.

A-4. Gateway

Use the virtual keypad to change Default GATEWAY.

A-5. DNS1

Use the virtual keypad to change DNS.

A-6. DNS2

Use the virtual keypad to change OTHER DNS.

A-7. WebPage Port

Use the virtual keypad to change the IE browser port.

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B. PPPoE SETUP

B-1. PPPoE Setting
Press the drop down list to enable or disable PPPoE.

B-2. User Name
Insert the user name (ADSL account) which provided from local ISP.

B-3. Password
Insert the password which provided from local ISP.

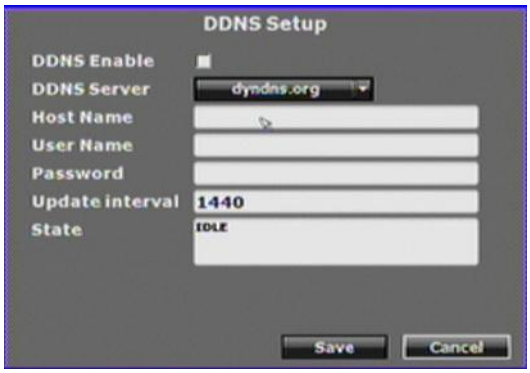
B-4. Password Confirm
Insert the password again to confirm the password.

B-5. State
Present the current status of PPPoE function.

B-6. Send Mail After Dialed
Click the drop down list to enable or disable the function.

B-7. Subject
Insert the mail subject when dialed successfully.

C. DDNS SETUP



C-1. DDNS Enable
Click the checkbox to enable or disable DDNS function.

C-2. Provider
Click the drop down list to select DDNS provider.

C-3. Host Name
Insert the registered host name in the selected provider.

C-4. User Name
Insert the registered user name in the selected provider.

C-5. Password
Insert the registered password in the selected provider.

C-6. Update Interval
A period of time to update IP address.

C-7. State

The state after apply for DDNS.
Updating: Information update.
Idle: Stop service.
DDNS registered successfully, now log by http://<username>.ddns.camddns.com: Registered successfully.
Updating Failed, the name is already registered.
Updating Failed, please check your internet connection.

D. MAIL SETUP

D-1. Enable
Tick “Alarm” to send video to the mail address when external alarm is triggered.
Tick “Motion” to send video to the mail address when motion detection is triggered.

D-2. Mail Server
The IP address of Mail Server

D-3. SMTP Port
The port of SMTP (known as Simple Mail Transfer Protocol). (Default value is 25)

D-4. User Name
The user name while log in to the mail server.

D-5. Password
The password while log in to the mail server.

D-6. Sender’s Mail
The sender’s account when send the mail via this mail server.

D-7. Receiver’s Mail
The receiver’s mail address.

D-8. BCC Mail
The receiver’s mail address for Bcc Mail.

D-9. Subject
The subject while sending the mail.

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E. FTP SETUP

E-1. Enable

Use the checkbox to enable or disable FTP Server.

E-2. FTP Server

The IP address of FTP Server.

E-3. User Name

The username while log in to the ftp server.

E-4. Password

The password while log in to the ftp server.

E-5. FTP Port

The port number of file transmission. (Default value is 21)

E-6. Path

The ftp path where the user wants to reserve the information.

F. DHCP Server Setup

F-1. Enable

Use the checkbox to enable or disable DHCP Server function. When the function is activated, the HYBRID DVR can be treated as the DHCP server. The HYBRID DVR will assign or distribute one of the IP address which is according to the setup IP address range (start and end IP Address.) to the connecting IPCAM (setup DHCP function as well).

F-2. Start IP Address

Use the virtual keypad to insert the start IP Address of DHCP server.

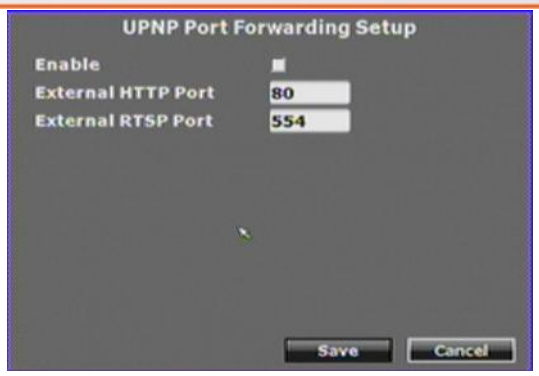
F-3. End IP Address

Use the virtual keypad to insert the end IP Address of DHCP server.

F-4. Lease Time

Press ◄ or ► to change the lease time of DHCP server.

G. UPNP Port Forwarding Setup



G-1. Enable

Use the checkbox to enable or disable UPNP port setup.

G-2. External HTTP Port

Use the virtual keypad to insert the external http port.

G-3. External RTSP Port

Use the virtual keypad to insert the external rtsp port.

H. Network Streaming Setup

For Network Viewing, the Hybrid DVR provides two compression formats.

H-1. Main Streaming

Users view the H.264 video playback via Internet browser. Selecting the option can save the disk space while spend more time when loading the video.

H-2. Sub Streaming

Other than the original H.264 video, the Hybrid DVR saves a copy of M-JPEG video used for Network Viewing. If it takes long time when loading the video on the web, selecting sub streaming here may make it faster. However, to store both the H.264 and M-JPEG video, more disk space must be consumed.

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3.7 AUTHORITY SETUP

A. HDD Format

Use the checkbox to enable or disable the authority of HDD Format function. If enable this function, the user has to insert password while performing HDD format.

B. Anonymous User Login

Use the checkbox to enable or disable the authority of anonymous user login. If enable this function, the user does not have to insert the username/ password and can view the live image via IE browser.

C. Password Protection

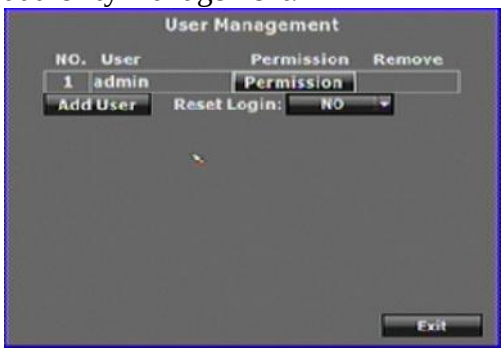
Use the checkbox to enable or disable the authority of password protection.

D. Keyboard Lock

Use the checkbox to enable or disable the operation of control bar which is in the right hand side of live view. The control bar can not work when keyboard lock is activated.

E. User Management

Among this item, user can setup the user management permission and the user authority management.



E-1. Permission

Use the mouse to click the checkbox to modify and alter the user authority.

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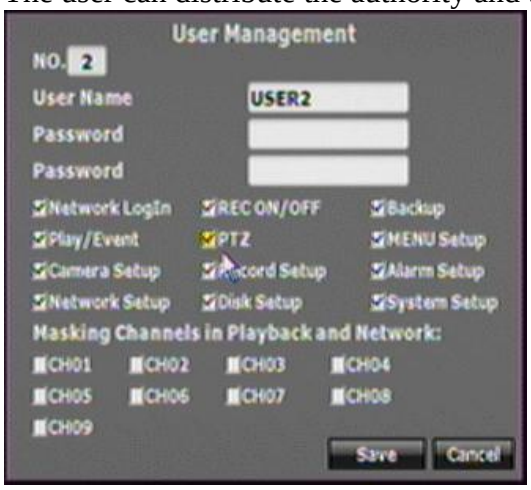
E-2. Add User

After click

button, the setup page will present in the following.
The user can distribute the authority and the permission for the new user.



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3.8 DISK MANAGEMENT

A. Overwrite Mode

Click the drop down list to enable or disable overwrite function.

B. Hard Disk Full Warning

Click the drop down list to change value to 20/ 15/ 10 or 5% with non-overwrite mode. When LEFT RATIO is below the setting, it will enable AUDIBLE ALARM (If AUDIBLE ALARM of BUZZER of ALARM SETUP is ON).

C. C. Auto Deletion

Select “ON”, then on the playback list, users cannot find the recording data that is older than the reserve day.

For example, it’s 2012/10/19 17:40 now. Auto deletion is set as on, and reserve day is set as 3. The recording data which recording time is order than 2012/10/16 17:40 will not be indicated on the playback menu.

D. Reserve Day

Use ◄ or ► to setup the reserve day between 1~30 days.

Note: If the “Overwrite Mode” is set OFF and DVR keeps recording, the HDD will finally get full regardless that “Auto Deletion” is ON.

E. Storage Information

The information of storage device will present in this page.

F. Format HDD

Insert the user name and password while performing HDD format function.

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3.9 SYSTEM SETUP

A. System Name

Use the virtual keypad to insert the name of the HYBRID DVR.

B. System ID

Use ◄ or ► to setup the HYBRID DVR ID. The adjustment value is between 0~32

C. Language

Use the drop down list to change the HYBRID DVR language. Currently, there are English, Traditional Chinese and Simplified Chinese three options.

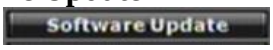
D. Date Format

Use the drop down list to change DATE. There are DD/MM/YYYY, YYYY/MM/DD and MM/DD/YYYY three modes.

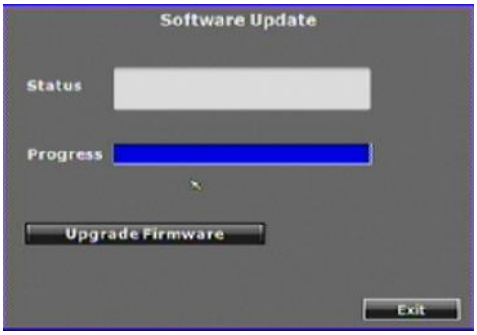
E. Version

The firmware version of the HYBRID DVR will show in this column.

F. Software Update

Click 

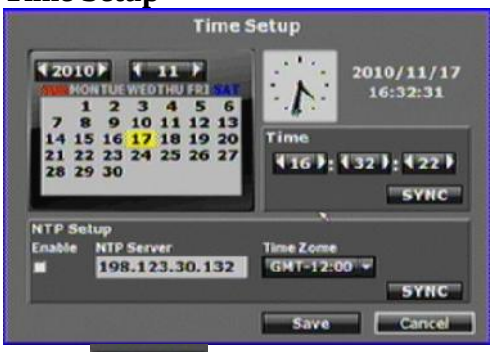
button to perform firmware updating.



G. Configure Setup

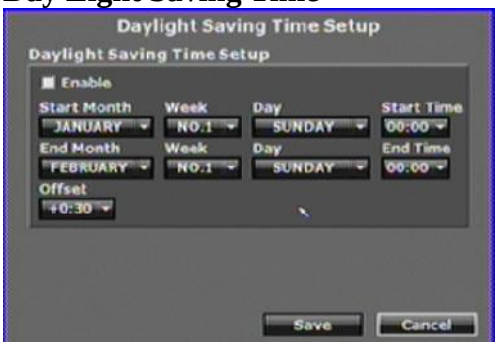
Click the checkbox to select which item can be setup by the user. The user can also load the setting to factory default, load the configure from USB and backup configure to USB.

H. Time Setup



Click SYNC button within "Time" block can adjust and synchronize the time of the HYBRID DVR as the system time of the PC. Moreover, if the user clicks the enable checkbox and SYNC button within the NTP Setup block, the time of the HYBRID DVR will synchronize as the NTP Server.

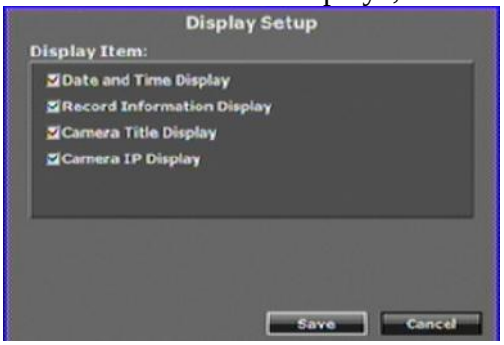
I. Day Light Saving Time



After enable the daylight saving time function, the user can use the drop down list to select the start time and the end time of daylight saving time. After complete the setting, please click Save button to reserve the setting.

J. Status Display Setup

Use the mouse to click the options, which is including "Date and Time Display", "Record Information Display", "Camera Title Display" , and "Camera IP Display".



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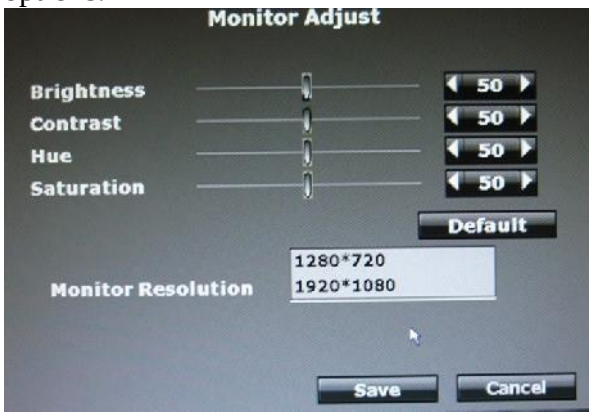
K. Monitor Adjust

User can use ◄ or ► to adjust the monitor related setting within this page, there are “Brightness”, “Contrast”, “Hue” and “Saturation” four options can be set. You can also adjust Resolution here by selecting “1280*720”, or “1920*1080(HDMI) / 1280*1024(VGA).” The video output interface, HDMI or VGA, affects the resolution options.



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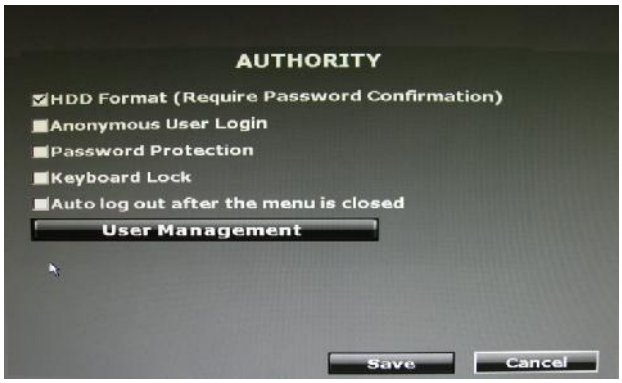
3.EX

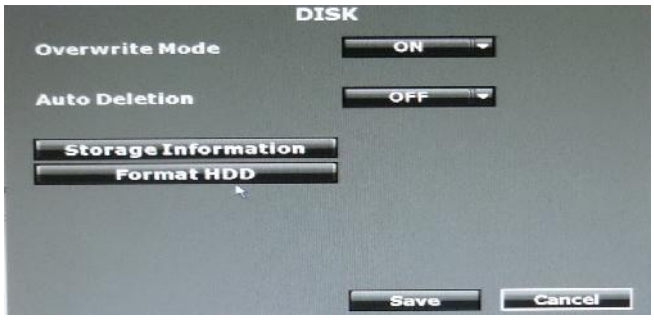
DEBUG MESSAGE

The purpose of the following procedure is to export a HDD debug message file. If user has problems with the DVR, the technical person can analysis the file and might find the cause of problem.

- Plug in a USB disk.
- Enter the Authority Setup page and make sure the option “HDD Format (Require Password Confirmation)” is ticked.



- Enter the Disk Setup page. Click “Format HDD”.



- Key in “@k” in the user name column to login. No password is required.

- The screen turns to Advance Setup page. Click download. It takes about 10 seconds to export the file.

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- When the downloading is complete, a message pops up to remind the user. Click" OK".

- Now the debug message file should have been in your USB disk. Please turn the file" dbgms.tar" to Linkcom's technical person.

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4 HYBRID DVR PLAYBACK

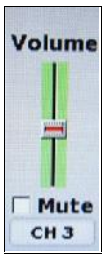
Note: Under playback mode, it will output sound when switch to full screen mode.

A. RECORD BACKUP

With playback mode, press this button to backup record (.ha0 video backup) and press this button again to finish backup. For performing the single image backup (.jpg single image backup), press first and then click this button to backup the necessary image.

B. **AUDIO VOLUME**

Press this button, and the audio volume control board will pop up.



C. **DISPLAY CONTROL**

Within playback mode, use display control to switch the camera channel.

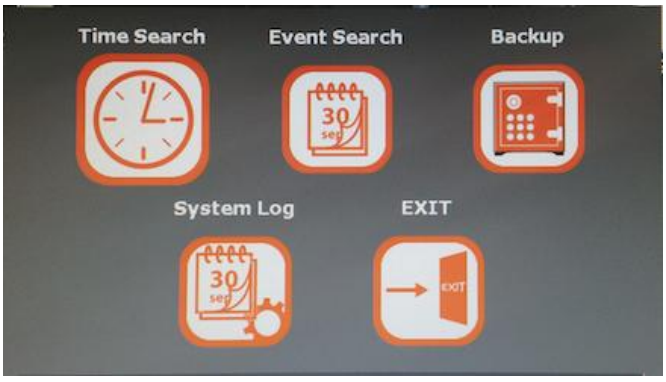
E. **DIGITAL ZOOM**

In the live full screen mode, left-click the button of the mouse to pull a range to zoom in or zoom out the image. User can right-click the button of the mouse to disable this function. (NOTE: Using the mouse to operate digital zoom can zoom in to max. 16 times.) Moreover, user can also use ZOOM key on the front panel to perform this function. (First, click ZOOM Key and then click ▲▼◄► key to select zoom in or zoom out position. Finally, click ENTER key to complete the setting. Moreover, click ZOOM Key again can disable digital zoom function. Using the panel key to perform zoom in function is fixed at 2 times.)

F.

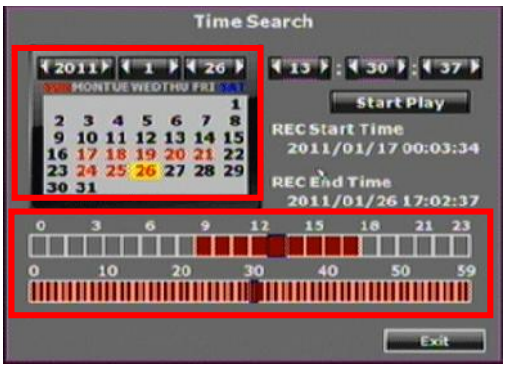
E. **RECORD AND PLAYBACK CONTROL**

Same as front panel controller and remote controller.



4.1 TIME SEARCH

Select the start of playback time and then click Start Play button to playback the recorded data. If the time contains the recorded data, the time point within this page will become red.



4.2 EVENT SEARCH

After entry to the event search page, user can click the event log item which shown on the list to start playback. Moreover, the user could click Event Filter button to select the specific event option to filter the event option that shown on the list.

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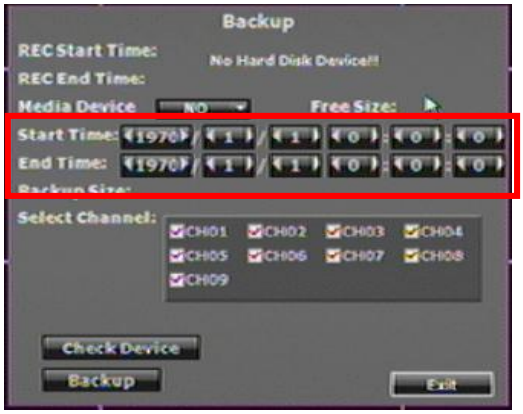
4.3 BACKUP

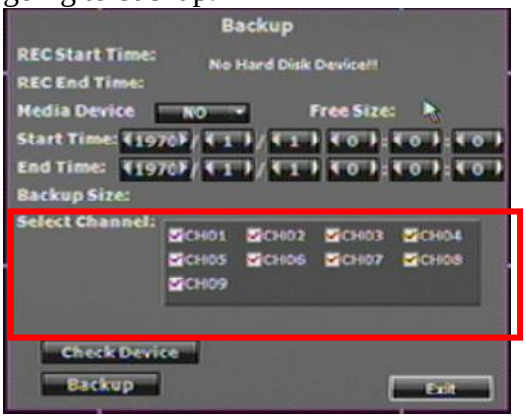
After click the backup button, the user could use drop down list to select the storage device, USB/ DVD-RW and the backup time selection mode, Time Mode/ Hours Mode. After that, click Backup Now button to start backup.

TIME MODE

Click ◄ or ► to select the start and end backup time.



Moreover, among “Select Channel” option, use the mouse to select the channel which is going to backup.



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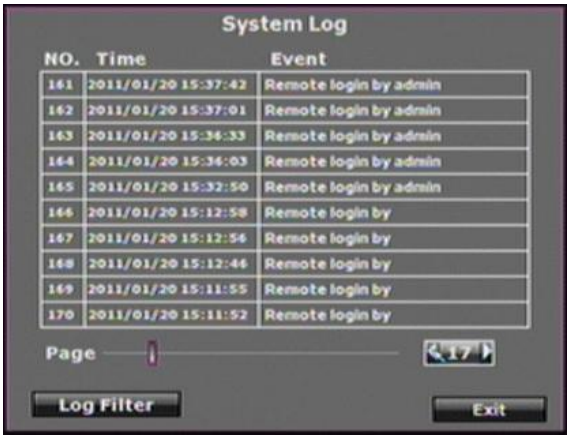
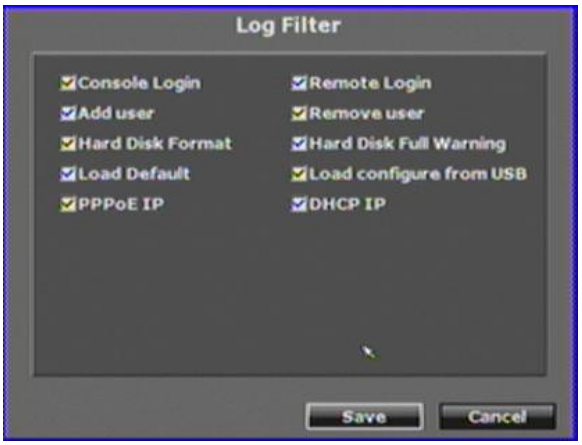
4.4 SYSTEM LOG

System log is reserved all of the system record. The maximum storage quantity is 2000. Click Log Filter button to perform the further data filter action. After complete the specific item selection, please click Save button to reserve the setting. While return to the system log page, it will only reveal the specific selection items.


System Log
NO. Time Event
161 2011/01/20 15:37:42 Remote login by admin
162 2011/01/20 15:37:01 Remote login by admin
163 2011/01/20 15:36:33 Remote login by admin
164 2011/01/20 15:36:03 Remote login by admin
165 2011/01/20 15:32:50 Remote login by admin
166 2011/01/20 15:12:58 Remote login by
167 2011/01/20 15:12:56 Remote login by
168 2011/01/20 15:12:46 Remote login by
169 2011/01/20 15:11:55 Remote login by
170 2011/01/20 15:11:52 Remote login by
Page
17
Log Filter
Exit

After click Log Filter button



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5 BACKUP PLAYBACK

SYSTEM REQUIREMENT
CPU: Intel Celeron 1.6G
MEMORY: 256MB.
VGA: 32MB
VGA RESOLUTION: 1024 x 768.
OS: Windows XP / 2000 or above

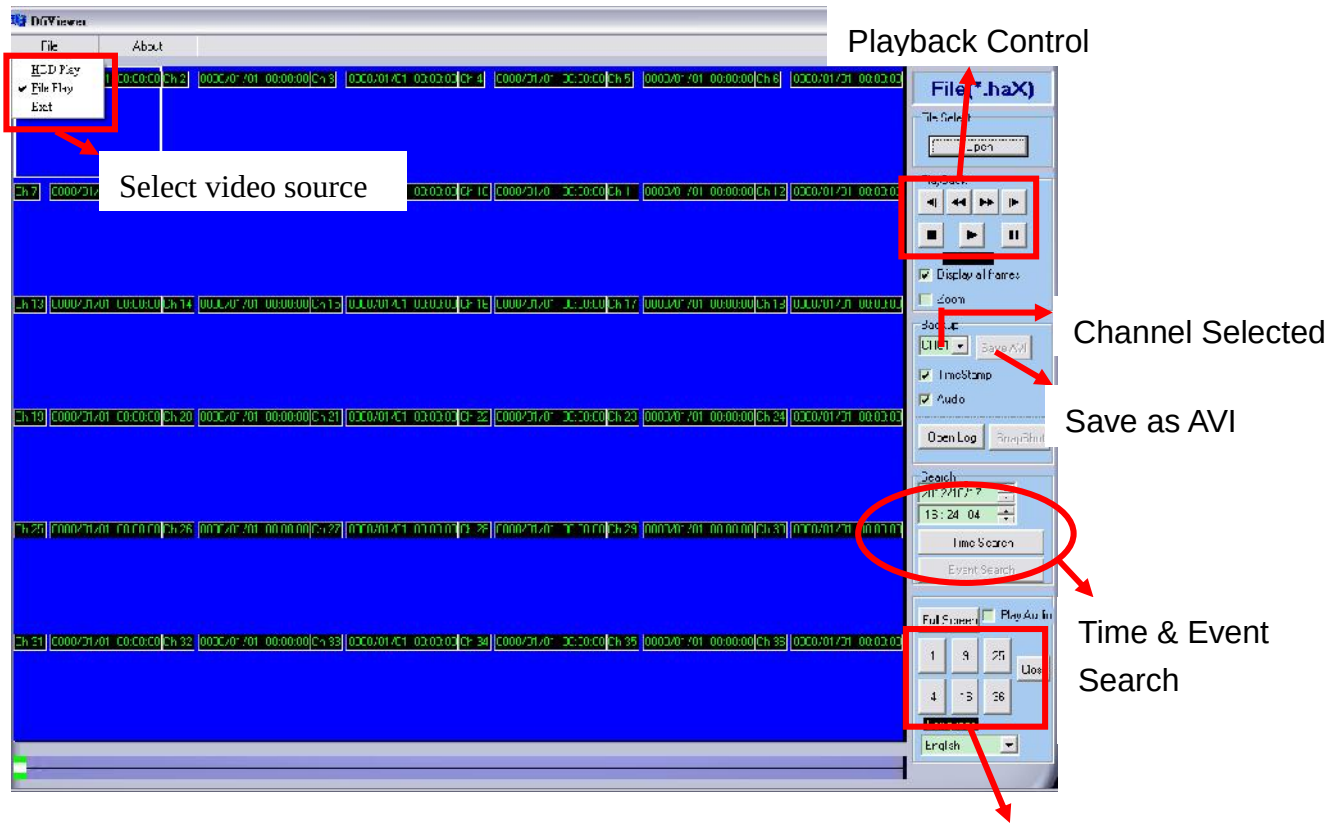
SUGGESTED REQUIREMENT
CPU: Intel P4 2.8G
MEMORY:512MB or above
VGA:64MB or above
VGA RESOLUTION:1024 x 768
OS: Windows XP / 2000 or above
NETWORK BANDWIDTH: Upload Speed is 256kbps or above

5.1 MAIN SCREEN SETTING

The player (D6Viewer.exe) is used to play the DVR backup video. D6Viewer.exe can be obtained via the Internet; moreover, while performing USB backup and DVD-RW backup, the software will be built automatically as well.

A. MAIN SCREEN

Open the D6Viewer. Use Overlay mode can improve the system resource performance.



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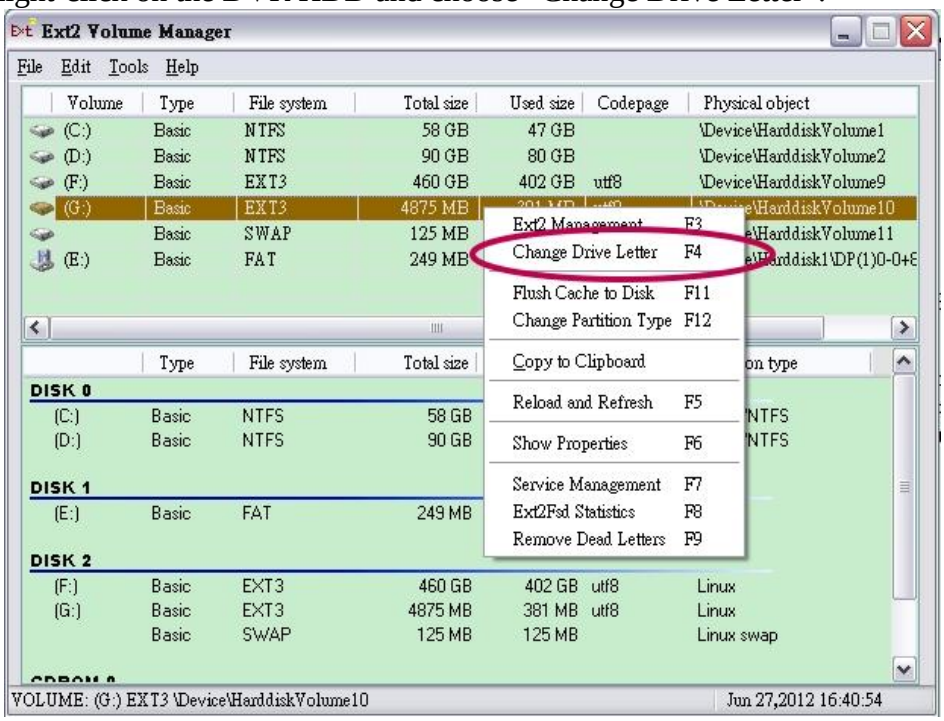
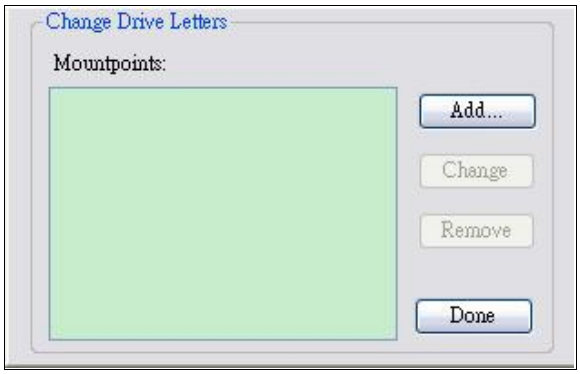
B. HDD PLAY

1. Remove the DVR HDD and connect it to the PC. The DVR HDD is Linux format, so the Windows system may not know it. Please use the software “Ext2Fsd” to assign a drive letter to the HDD. “Ext2Fsd” is in the attached CD or can be downloaded from the Internet.

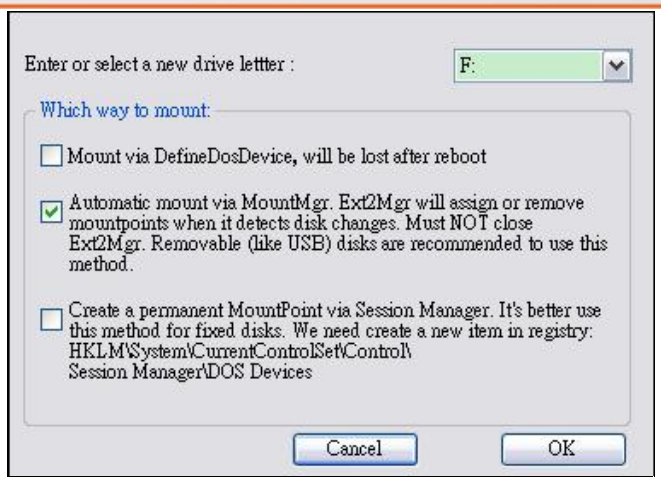
- Start the Ext2Fsd, and it will detects all the disks connected with your PC. Right-click on the DVR HDD and choose “Change Drive Letter”.


Ext2 Volume Manager
File Edit Tools Help
Volume Type File system Total size Used size Codepage Physical object
(C:) Basic NTFS 58 GB 47 GB \Device\HarddiskVolume1
(D:) Basic NTFS 90 GB 80 GB \Device\HarddiskVolume2
(F:) Basic EXT3 460 GB 402 GB utf8 \Device\HarddiskVolume9
(G:) Basic EXT3 4875 MB \Device\HarddiskVolume10
Basic SWAP 125 MB \Device\HarddiskVolume11
(E:) Basic FAT 249 MB
Ext2 Management F3
Change Drive Letter F4
Flush Cache to Disk F11
Change Partition Type F12
Copy to Clipboard
Reload and Refresh F5
Show Properties F6
Service Management F7
Ext2Fsd Statistics F8
Remove Dead Letters F9
DISK 0
(C:) Basic NTFS 58 GB
(D:) Basic NTFS 90 GB
DISK 1
(E:) Basic FAT 249 MB
DISK 2
(F:) Basic EXT3 460 GB 402 GB utf8 Linux
(G:) Basic EXT3 4875 MB 381 MB utf8 Linux
Basic SWAP 125 MB 125 MB Linux swap
VOLUME: (G:) EXT3 \Device\HarddiskVolume10
Jun 27,2012 16:40:54

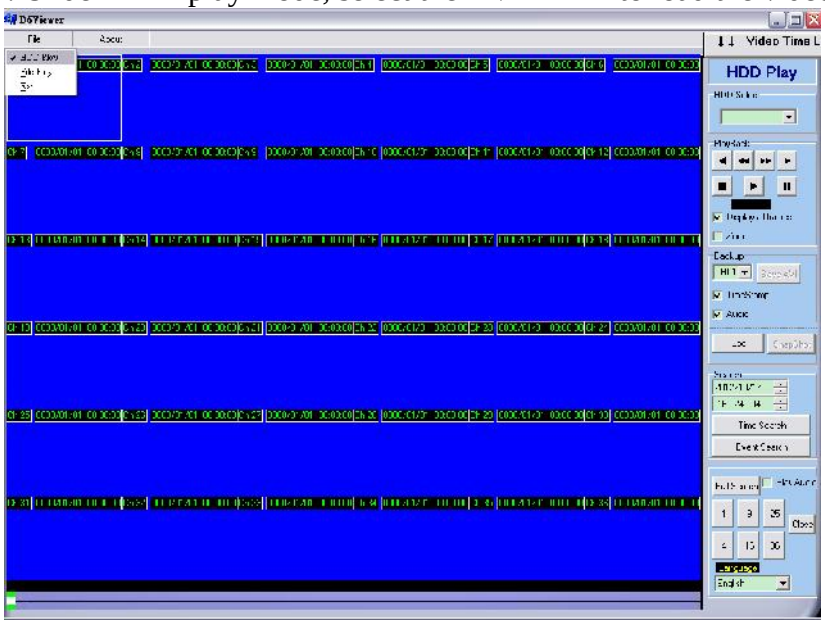
- Click “Add”



- Assign a letter to the HDD, then click OK so that the HDD get the letter and can be recognized by the Windows.

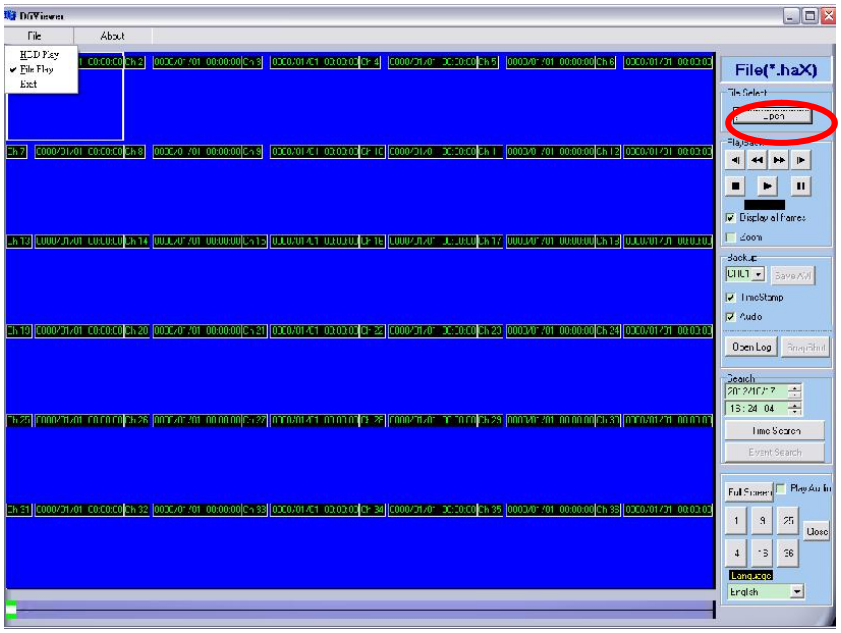

Enter or select a new drive lettter :
F:
Which way to mount:
Mount via DefineDosDevice, will be lost after reboot
Automatic mount via MountMgr. Ext2Mgr will assign or remove mountpoints when it detects disk changes. Must NOT close Ext2Mgr. Removable (like USB) disks are recommended to use this method.
Create a permanent MountPoint via Session Manager. It's better use this method for fixed disks. We need create a new item in registry: HKLM\System\CurrentControlSet\Control\ Session Manager\DOS Devices
Cancel
OK

2. Under HDD play mode, select the DVR HDD to load the video file in the HDD.

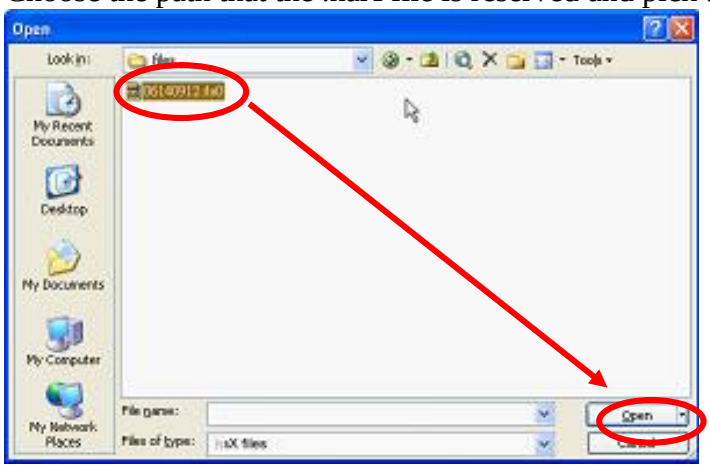


C. File Play

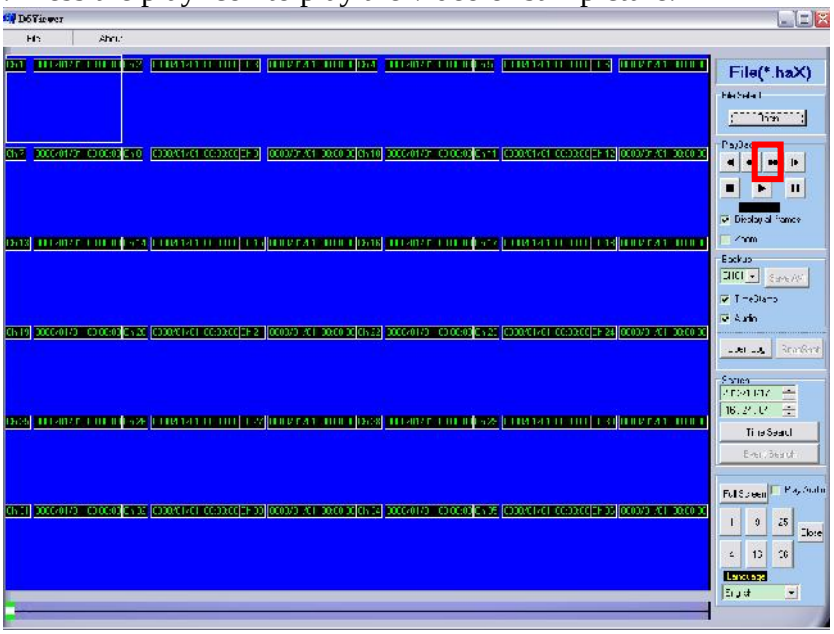
1. You can use D6Viewer to open a single video backup file. Under file play mode, select "Open".



2. Choose the path that the .haX file is reserved and pick the file to playback.



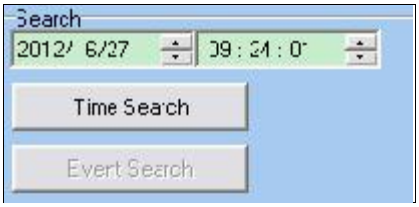
3. Press the play icon to play the video or still picture.



5.2 PLAYBACK OPERATION

A. TIME SEARCH

Select the Date and Time and then click Time Search to play the film.



B. EVENT SEARCH

It will display all the events which are reserved within the DVR HDD after press Event Search (Shown in the following) and double click left button of mouse to trigger event.

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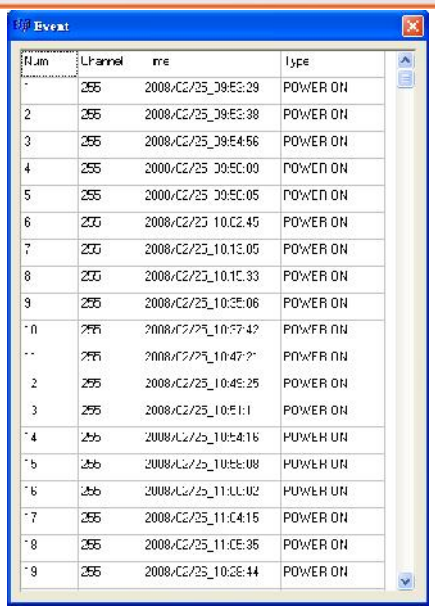
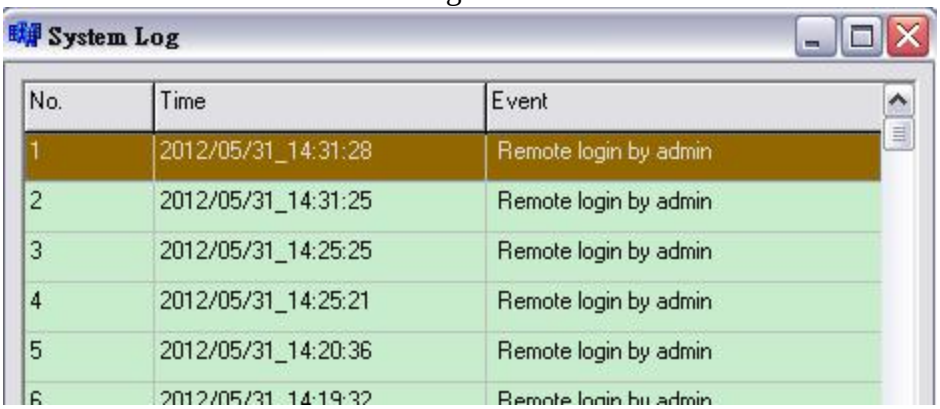


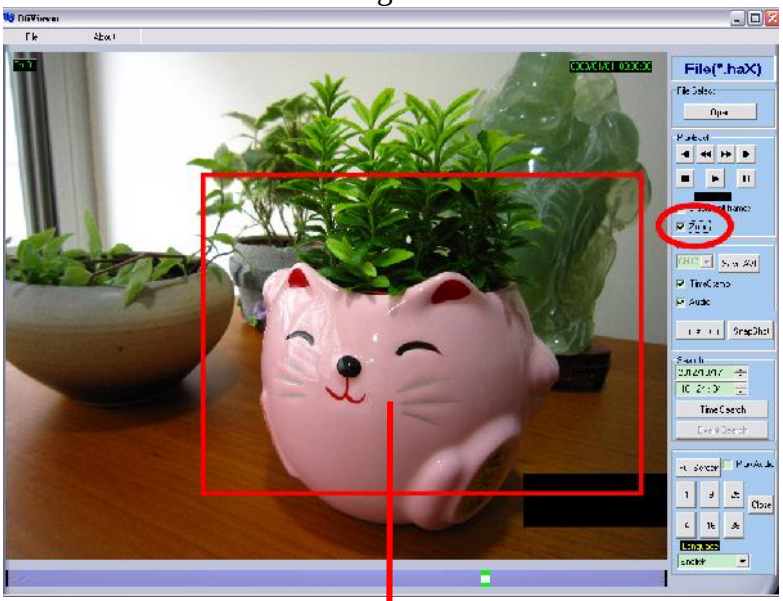
C. LOG

Click to check the log records.



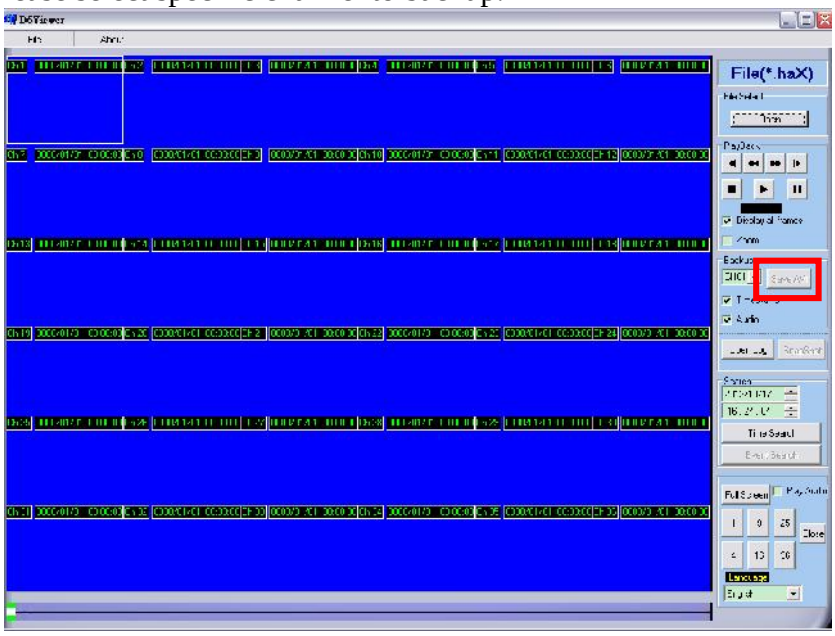
D. ZOOM

Tick the “Zoom” box and drag an area on the screen. Click the area to zoom in.



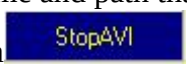
E. BACKUP FILE TO AVI

1. Please select specific channel to backup.



2. During video playback mode please press AVI bottom

to start.
3. Make up a filename and path than press

bottom to start AVI backup.
4. Press AVI bottom 

to finish backup.

6 NETWORK VIEWING & PLAYBACK

SYSTEM REQUIREMENT
CPU: Intel Celeron 1.6G
MEMORY: 256MB.
VGA: 32MB
VGA RESOLUTION: 1024 x 768.
OS: Windows XP / 2000

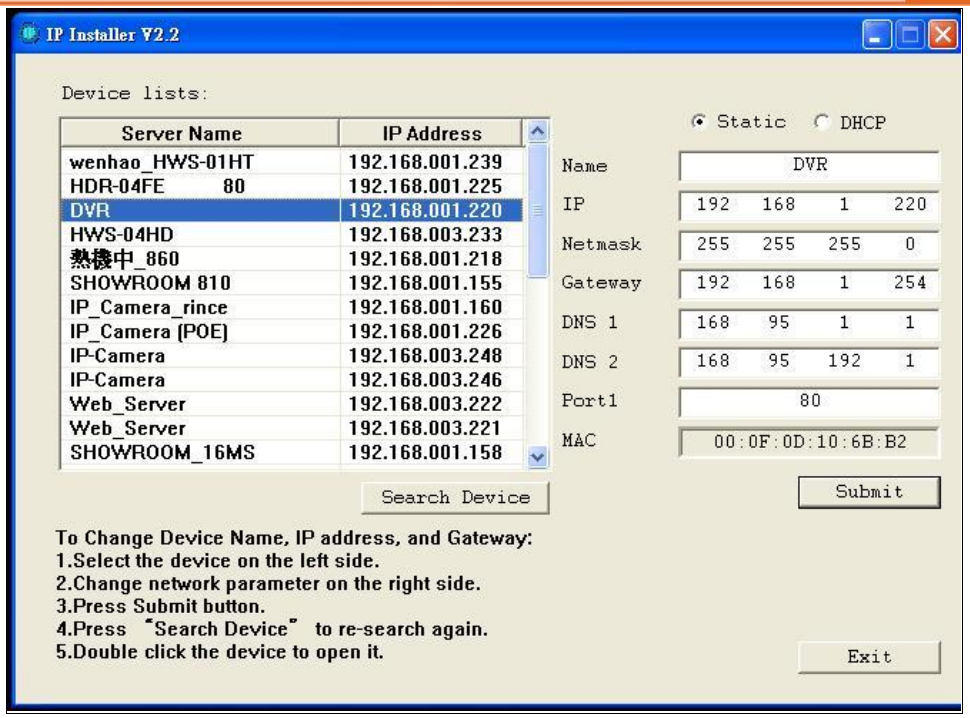
SUGGESTED REQUIREMENT
CPU: Intel P4 2.8G
MEMORY:512MB or above
VGA:64MB or above
VGA RESOLUTION:1024 x 768
OS: Windows XP / 2000
NETWORK BANDWIDTH: Upload Speed is 256kbps or above

6.1 IP ADDRESS SETUP ON PC SITE

Install cameras inside in LAN or use network cable to connect with PC. This is for IPInstallerEng.exe to set up IP address of cameras. If OS is Windows XP SP2 or above, the following Windows Security Alert will popup. Then, please click on **Unblock**.

Windows Security Alert
To help protect your computer, Windows Firewall has blocked some features of this program.
Do you want to keep blocking this program?
Name: IPInstaller V2.0 IPCam Scan
Publisher: Unknown
Keep Blocking
Unblock
Ask Me Later
Windows Firewall has blocked this program from accepting connections from the Internet or a network. If you recognize the program or trust the publisher, you can unblock it. When should I unblock a program?

Then, IPInstallerEng.exe will popup:
HYBRID DVR default IP address is 192.168.1.220



NOTE: Please input correct network parameters without blank spaces.

On Device Lists, it lists all servers. Click on one server and then its IP setting will show on the right side. After editing the parameters and clicking on Submit, the following dialogue box will popup. And, it will reboot the device with new parameters.

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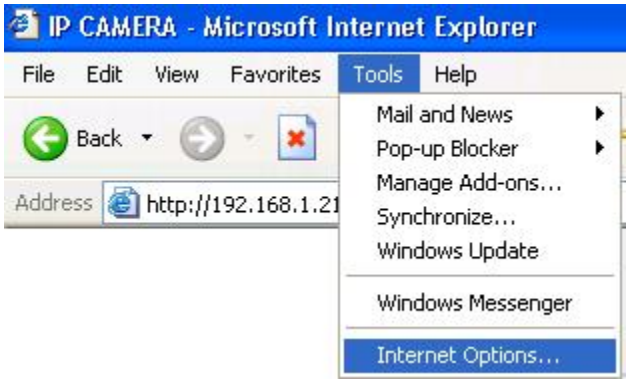
6.2 OPTIONAL MICROSOFT INTERNET EXPLORER SETUP

OPTION 1: DISABLE ACTIVEX WARNING

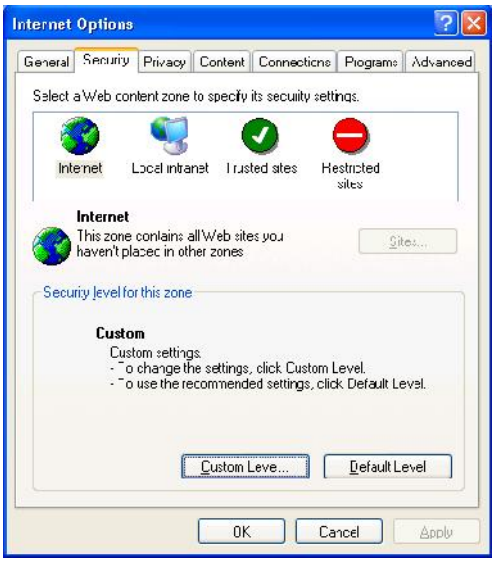
A. IE → Tools → Internet Options → Security → Custom Level → Security Settings → Download unsigned ActiveX controls → Enable or Prompt (recommend).

B. IE → Tools → Internet Options → Security → Custom Level → Security Settings → Initialize and script ActiveX controls not marked as safe → Enable or Prompt (recommend).

1

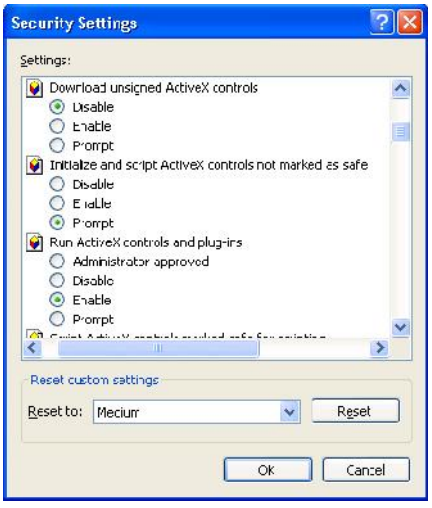


2



3

4



5

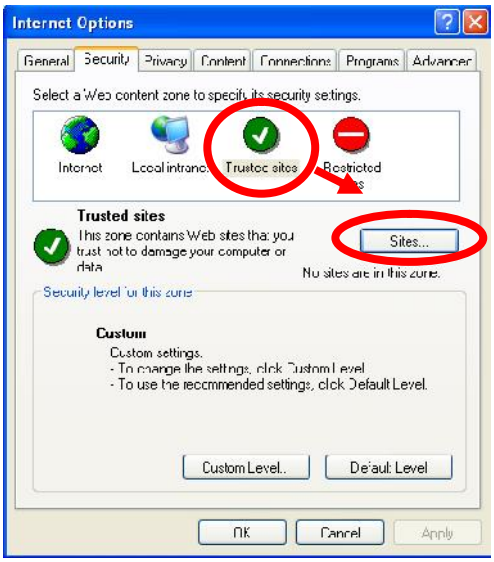
Above three options are all based on select as the prompt.

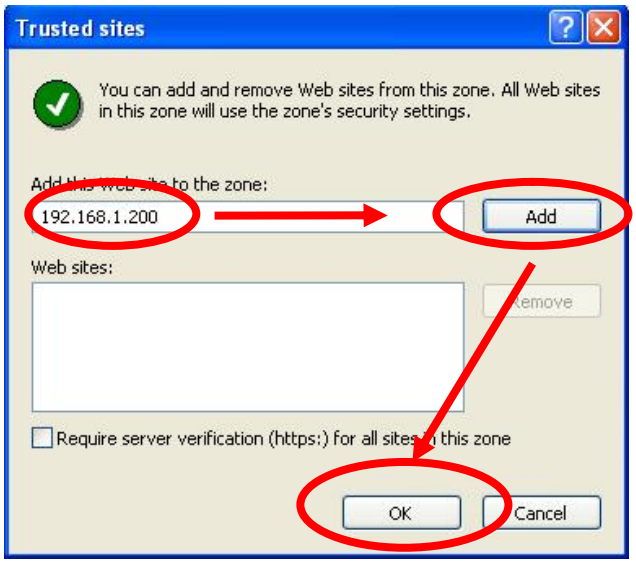
As indicated in the dialogue box. Please select "YES."

Internet Explorer
An ActiveX control on this page might be unsafe to interact with other parts of the page. Do you want to allow this interaction?
Yes
No

OPTION 2: ADD TO TRUSTED SITES

IE → Tools → Internet Options → Security → Trusted sites → Sites




Trusted sites
You can add and remove Web sites from this zone. All Web sites in this zone will use the zone's security settings.
Add this Web site to the zone:
192.168.1.200
Add
Web sites:
Remove
Require server verification (https:) for all sites in this zone
OK
Cancel

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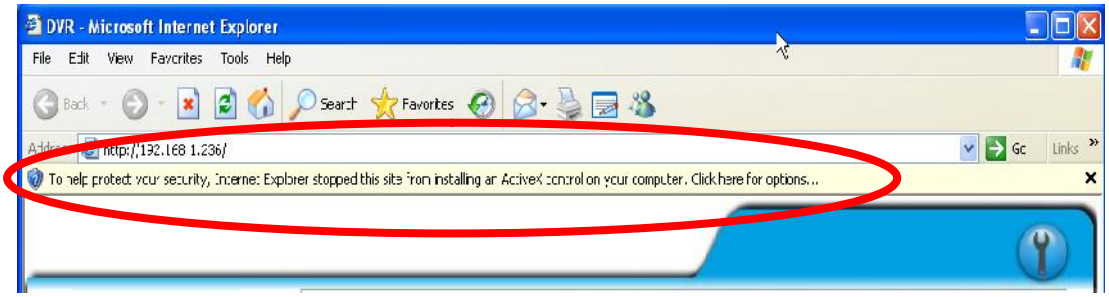
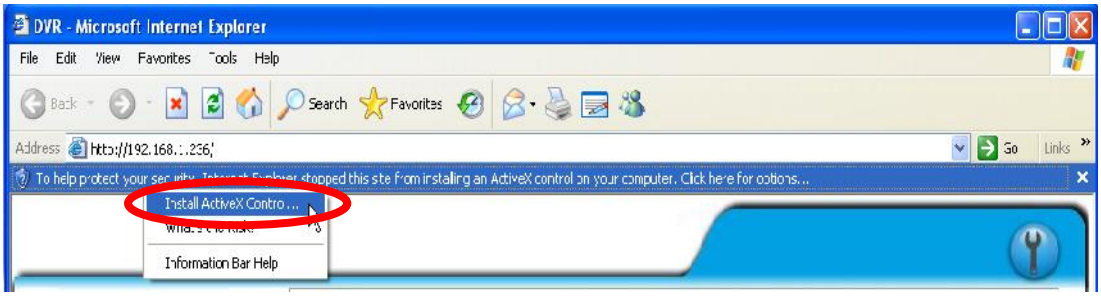
6.3 LOGIN

A. INSTALL ACTIVEX


DVR - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.1.236/
Go Links
To help protect your security, Internet Explorer stopped this site from installing an ActiveX control on your computer. Click here for options...

B. START INSTALL ACTIVEX


DVR - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.1.236/
Go Links
To help protect your security, Internet Explorer stopped this site from installing an ActiveX control on your computer. Click here for options...
Install ActiveX Control...
Information Bar Help

C. ACCOUNT & PASSWORD LOGIN

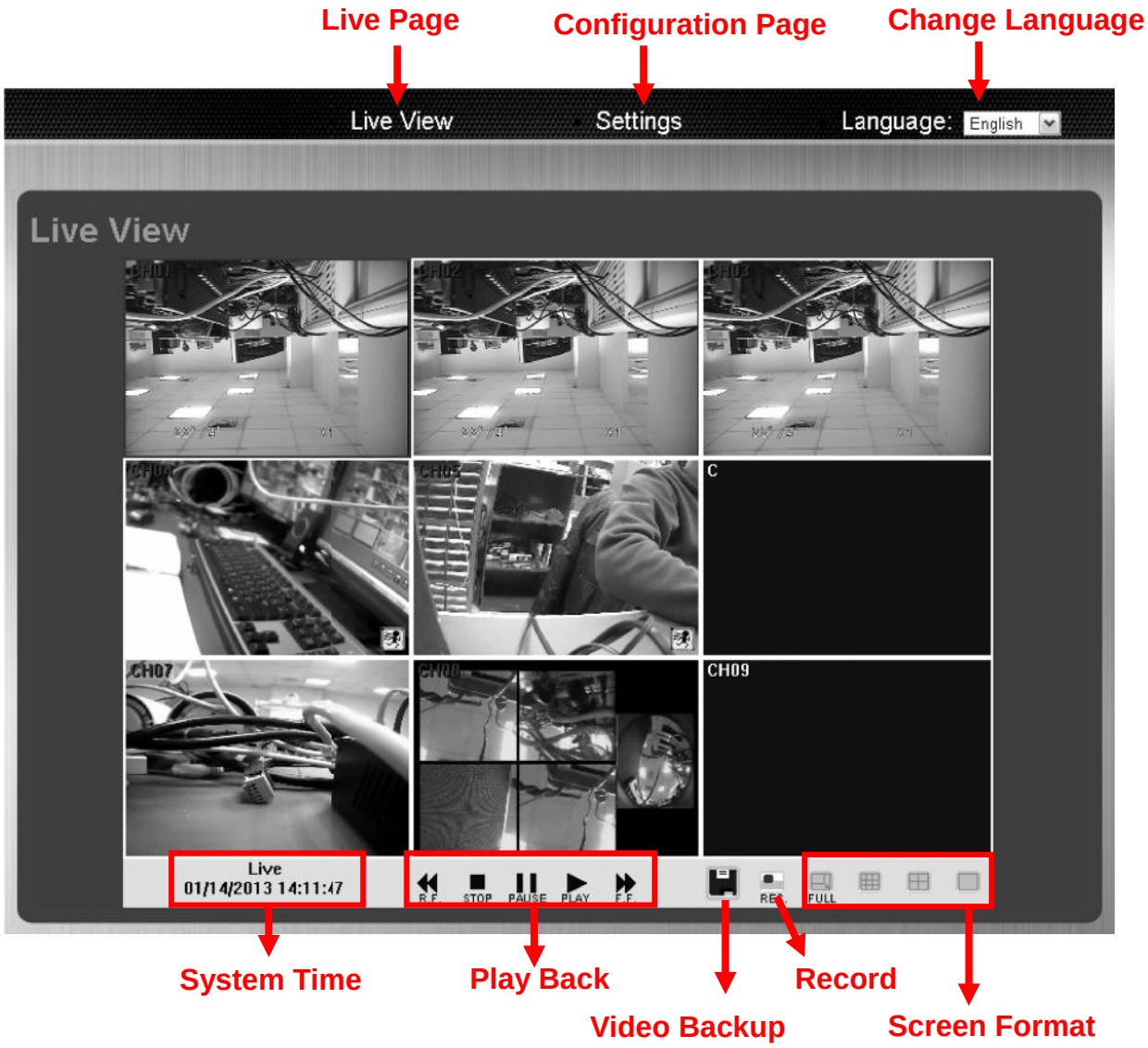
After IP setup and connect to network or LAN, type IP address on IE Browser directly. The following User name & Password Login window will popup.

Default user name: admin

Default password: admin

6.4 REMOTE CONTROL

LIVE VIEW



PTZ PANEL

The 4-direction arrows are used to shift the camera view. The bigger value you select in "Speed", the longer the moving range becomes by each click on the arrow. If you click the house icon , the camera view turns to initial position. Use magnifier icons to zoom in / zoom out .

After you adjust the camera view to where you want to set a preset point, select a number from "Preset Point" drop-down menu, and click "Save" button to add the point to the reset point list. When you select that point from the drop-down menu and click "Go", the camera view will move to

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where you had set.

Click the button to start auto-pan, click the button to pause.

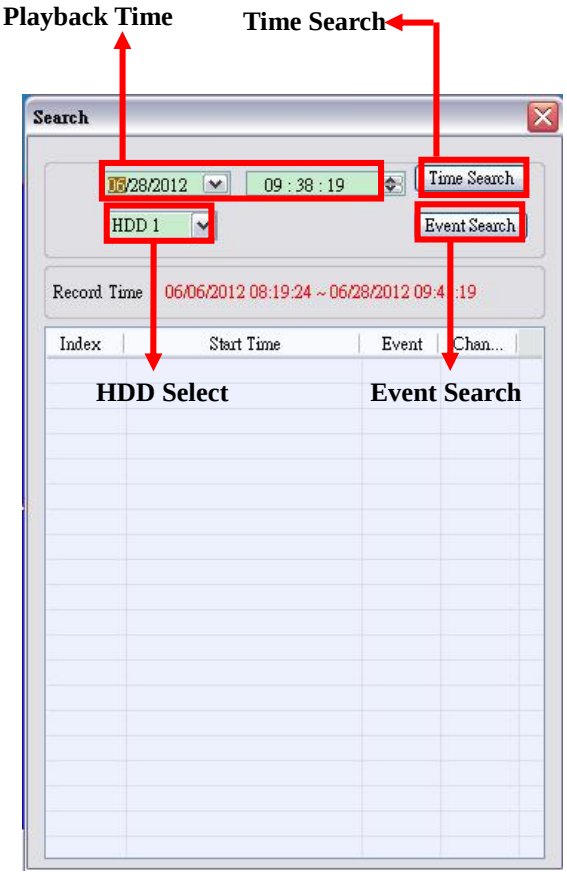
1

RECORD

Click to start record the current live video to the PC or storage device. The saved file is *.ha0 file.

PLAYBACK

Click and select time playback or event playback.



A. HDD Select

User can select HDD1 or HDD2 for playback

B. Playback Time

User can select the time then press “Time Search” for playback.

C. Time Search

User can select the time then press “Time Search” for playback.

D. Event Search

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User can select event item by pressing “Event Search” for playback.

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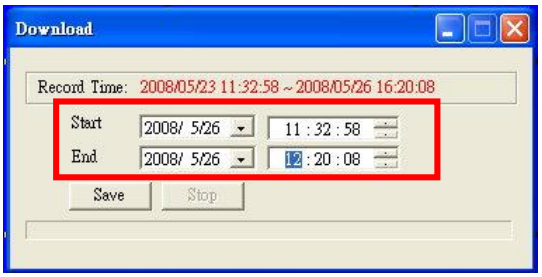
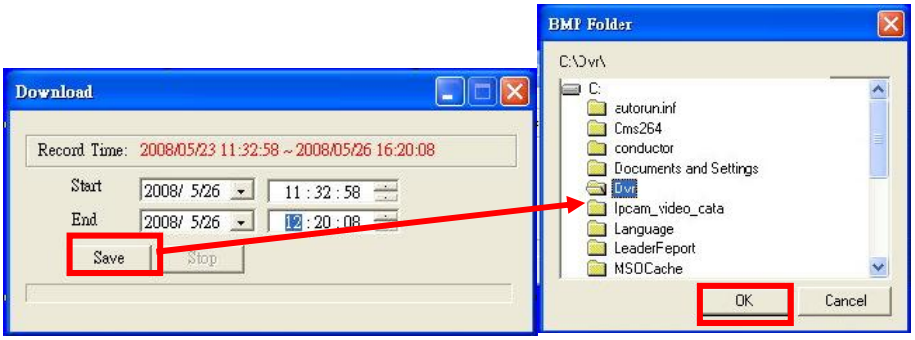
BACKUP

Click to select backup time point. The saved file is *.ha0 file.

First, select Start and End backup time which have to among the Record Time.



Then, click Save button to select the position on PC where the user is going to backup the data. After that, press OK button to start the backup.



Finally, double-click the left button of the mouse to open the saved backup file. The backup file will named as the time when start to backup, such as, (20080526113258.ha0) will be 2008/05/26 11:32:58.

OTHER FUNCTIONS

Right-click the on any channel, and the menu pops up:

A. Snapshot:

User can save any single picture from image.

B. Performance:

User can select image quality (high, medium & low)

C. Use Overlay:

User can use Overlay function. The function can save system resource and promote the efficacy.

D. Play audio:

User can play audio function by channel.

Note: remote user can receive audio from DVR. However, there's no influence on

sound recording of playback video whether the audio is played or not.

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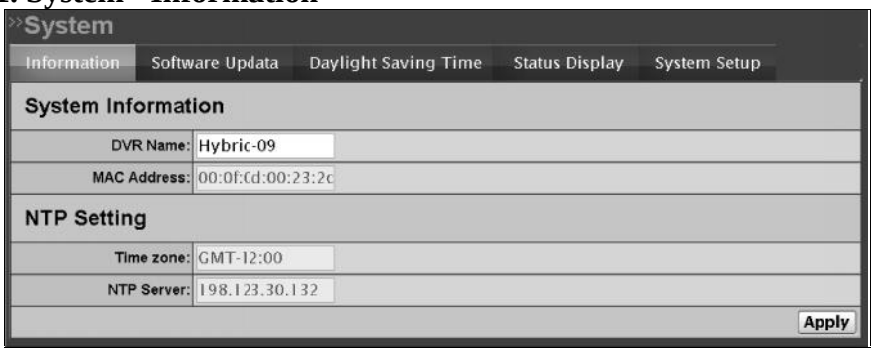
6.5 CONFIGURE

A-1. System - Information



DVR Name: This name will show on the IP Installer.

MAC Address: The MAC address cannot be revised.

Time Zone: The time zone can only be modified on local DVR.

NTP Server: The NTP Server IP address can only be modified on local DVR.

A-2. System – Software Update

System Update: Click on the “Browse” button to select the firmware file and then press “Upgrade” button to upgrade the firmware.

ActiveX Updating: The ActiveX control should be also updated when you update the DVR/NVR firmware. Use the tool in the attached CD to uninstall the old ActiveX control so that the newest version can be registered.

- Automatic Uninstall

  Please follow the steps:

  1. After updating the DVR/NVR firmware, close the web browser.
  2. Run the file

"unreg" in the CD to automatically remove the existing ActiveX component "WATCH_16R" from your PC.
  3. Log in the DVR/NVR via web browser again, and the browser will require you to install the new version of ActiveX control.

- Manual Uninstall

  If the tool does not work, please follow the steps to uninstall ActiveX control manually.

  1. Look for the files

"KConfig.ocx" and

"WATCH_16R.ocx" in one of the possible paths:
"C:\WINDOWS\Downloaded Program Files"

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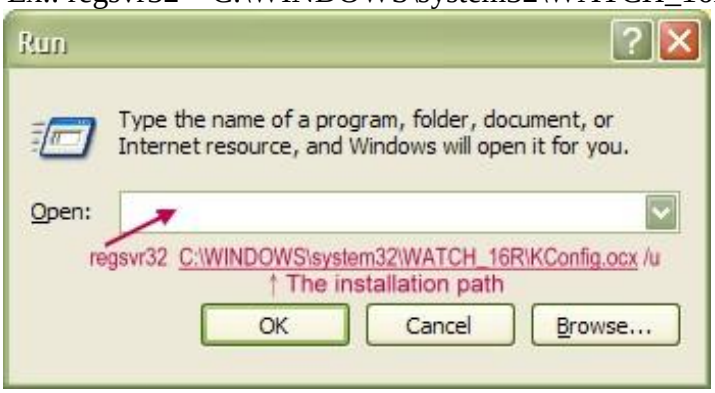
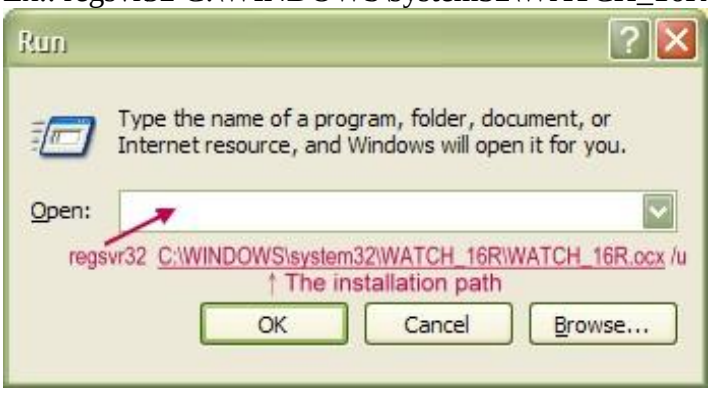
"C:\WINDOWS\W16R"
"C:\WINDOWS\system32\WATCH_16R"

2. "Start" -> "Run" -> Key in: regsvr32(The path of KConfig.ocx) /u -> Click "OK"
   Ex.: regsvr32 C:\WINDOWS\system32\WATCH_16R\KConfig.ocx /u



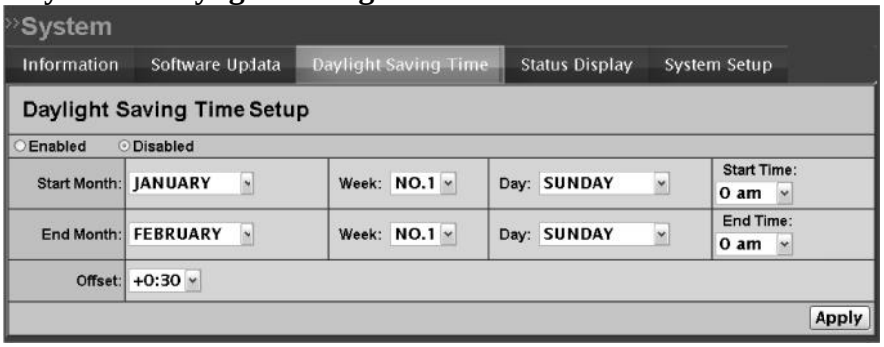
3. "Start" -> "Run" -> Key in: regsvr32(The path of WATCH_16R.ocx) /u -> Click "OK"
   Ex.: regsvr32 C:\WINDOWS\system32\WATCH_16R\WATCH_16R.ocx /u



4. Log in the DVR/NVR via web browser again, and the browser will require you to install the new version of ActiveX control.

Load Setup from Default: Click “Apply” to reset the machine and revert all setting back to default value.
Load Setup from: Click “Browse” to choose a file. You can load setup from your computer if you ever clicked “Download” and saved the settings before.
Backup Setup: Click “Download” to save a current setting file to PC. You can apply this file to other DVR so that the setting will be copied to other DVR.

A-3. System – Daylight Saving Time



Give the start and end daylight saving time. During daylight saving, the time will be 1 hour faster.

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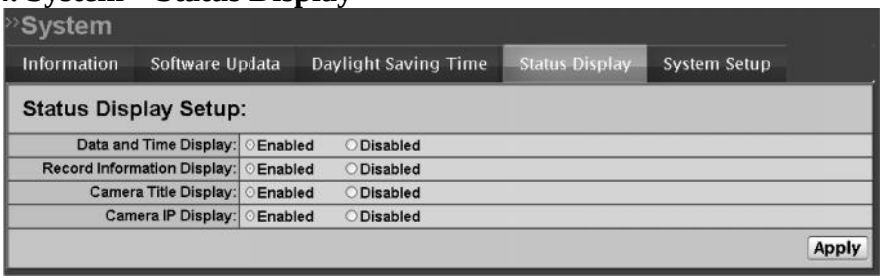
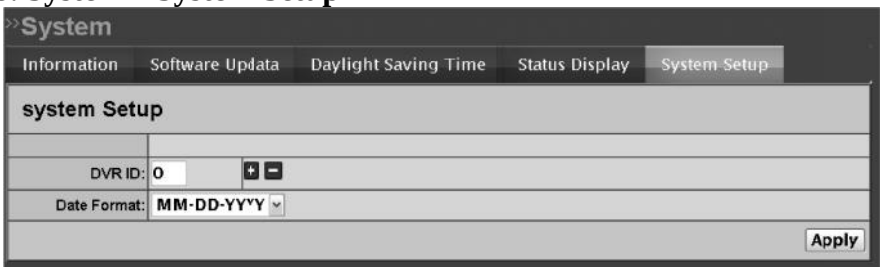
A-4. System – Status Display



Select the items that will be displayed on local DVR.

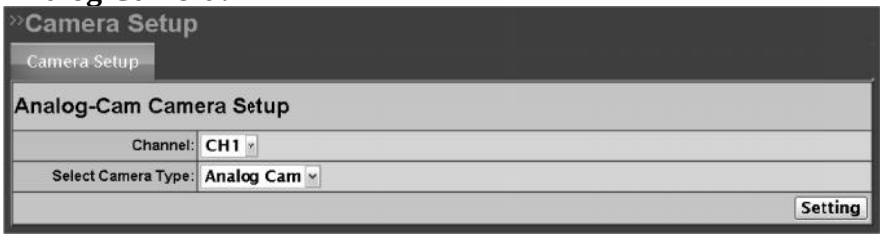
A-5. System – System Setup



DVR ID: The ID is used for distinguish DVRs when you use remote controller or RS485. Give different ID when you have several DVRs.
Date Format: Select a format of date display.

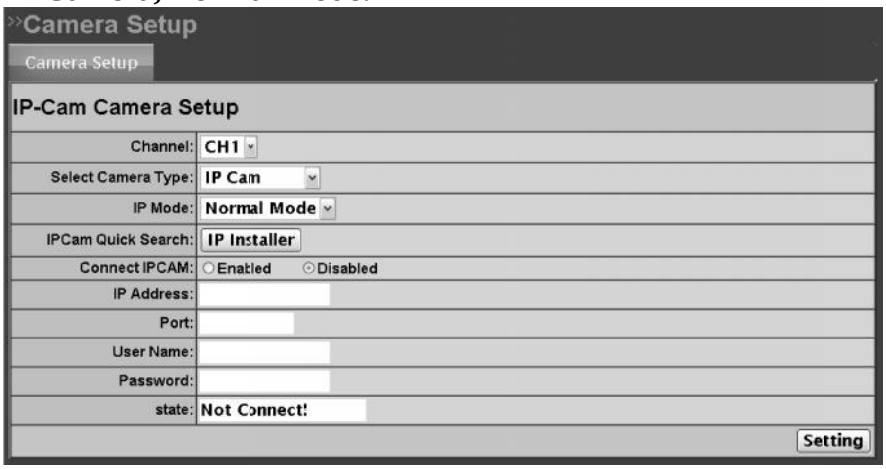
B-1. Camera – Camera Setup

Analog Camera:

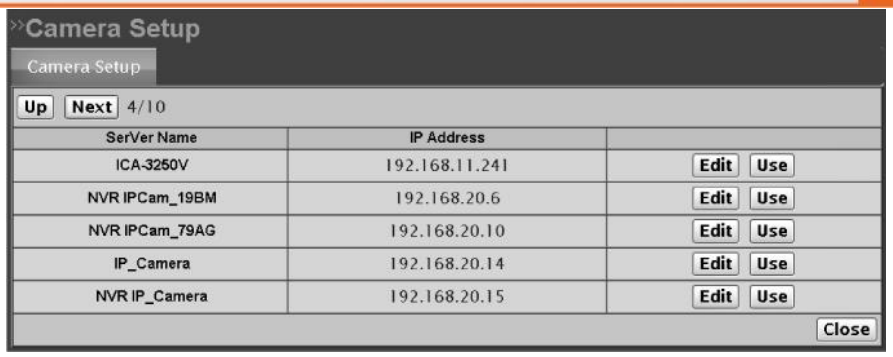


After connecting the analog camera to DVR, select “Analog Camera” of corresponding channel.

IP Camera, Normal Mode:

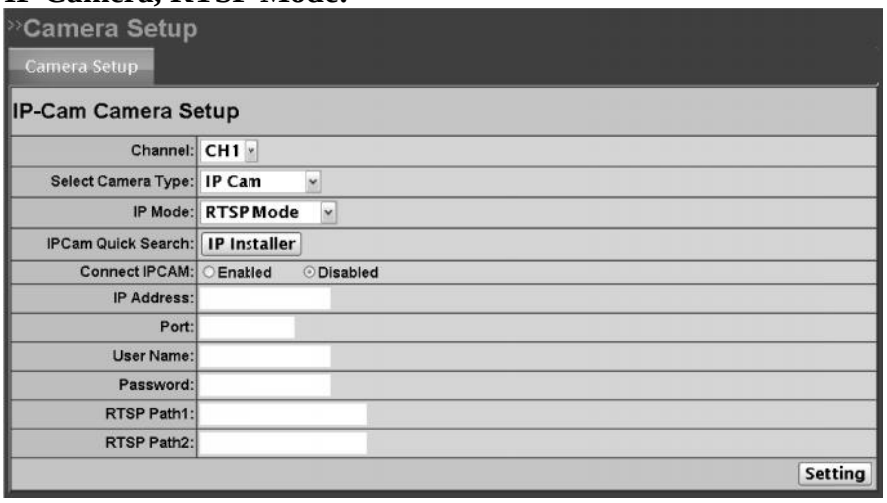


Under Normal mode, Http protocol is used to access camera.
You can key in IP address, port, username, and password manually.
You can either use IP Installer to scan the LAN and find the camera:



Click “Edit” to revise the device information. Click “Use” to add this device to channel.

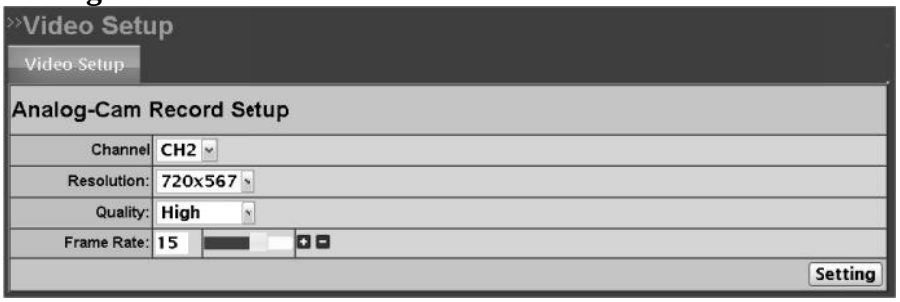
IP Camera, RTSP Mode:



Under RTSP mode, Rtsp protocol is used to access camera.
Give the IP address, port, username, password, and RTSP path of two streaming.

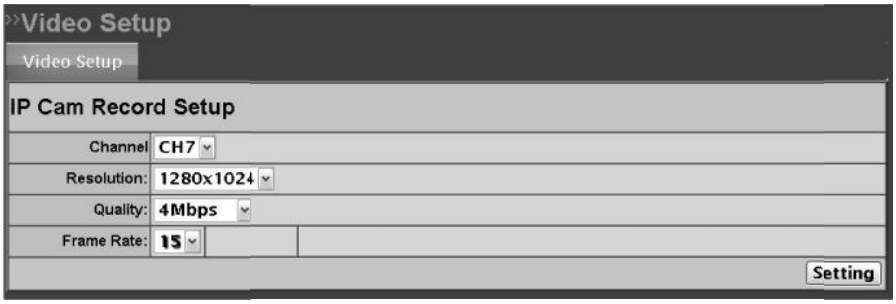
B-2. Camera - Video Setup

Analog Camera:



Select the channel, and adjust the resolution quality, and frame rate.

IP Camera:



Select the channel, and adjust the resolution quality, and frame rate.

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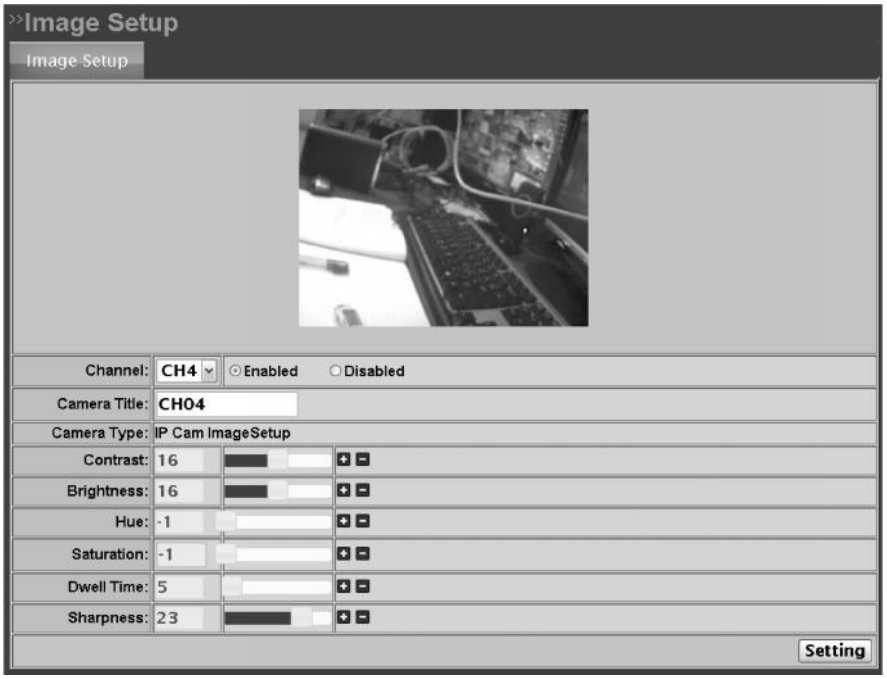
B-3. Camera – Image Setup

Analog Camera:

Adjust image contrast, brightness, hue, saturation, and sharpness here. “Dwell Time” means the swap interval when performing swap on single channel screen.

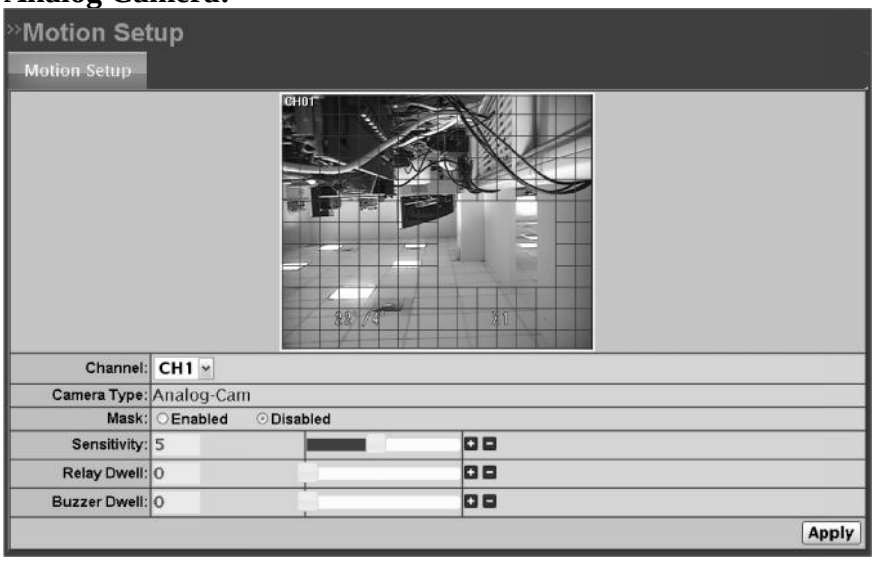
IP Caemra:



Adjust image contrast, brightness, hue, saturation, and sharpness here. “Dwell Time” means the swap interval when performing swap on single channel screen.

B-4. Camera – Motion Setup

Analog Camera:

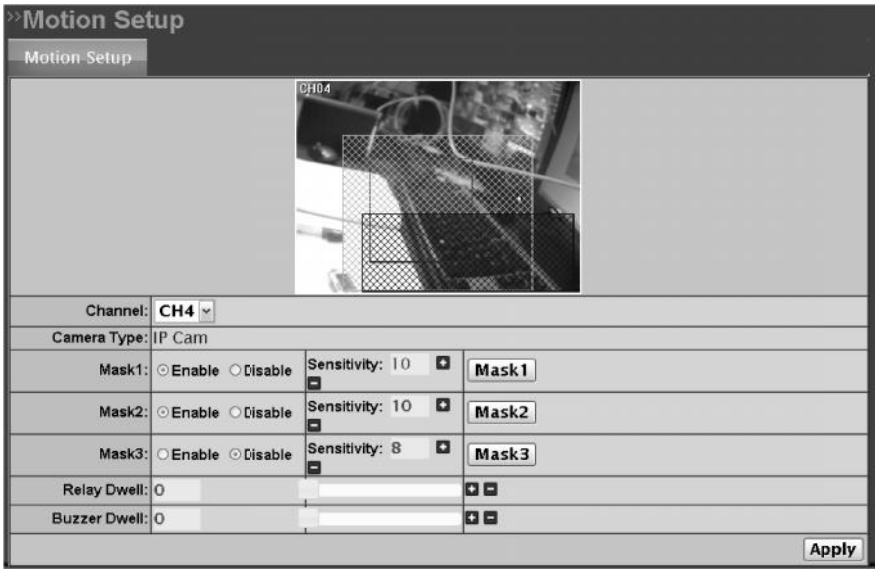


Enable motion function, and drag on the screen the motion area. When motion is detected in the area, the DVR will be triggered and execute alarm action.

Relay Dwell: The value determines the relay triggering time when motion detection happens.

Buzzer Dwell: The value determines the buzzer sounding time when motion detection happens.

IP Camera:



Enable motion function, and drag on the screen the motion area. You can setup three areas. When motion is detected in the area, the DVR will be triggered and execute alarm action.

Relay Dwell: The value determines the relay triggering time when motion detection happens.

Buzzer Dwell: The value determines the buzzer sounding time when motion detection happens.

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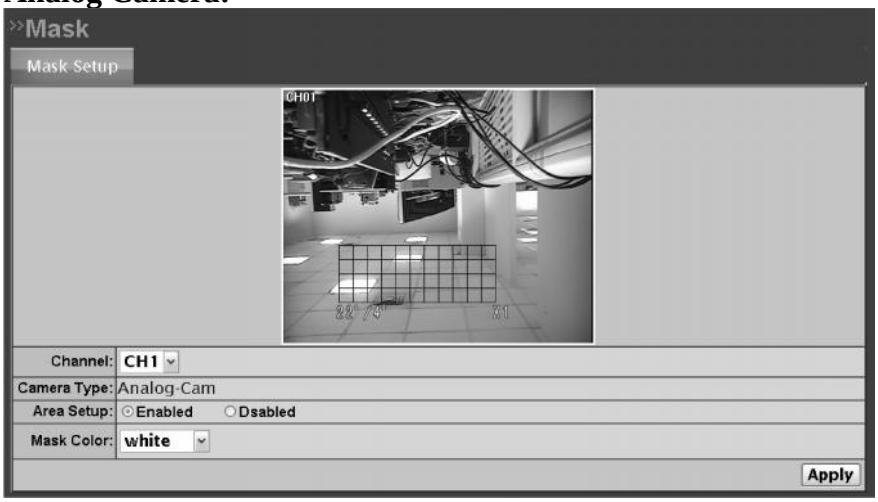
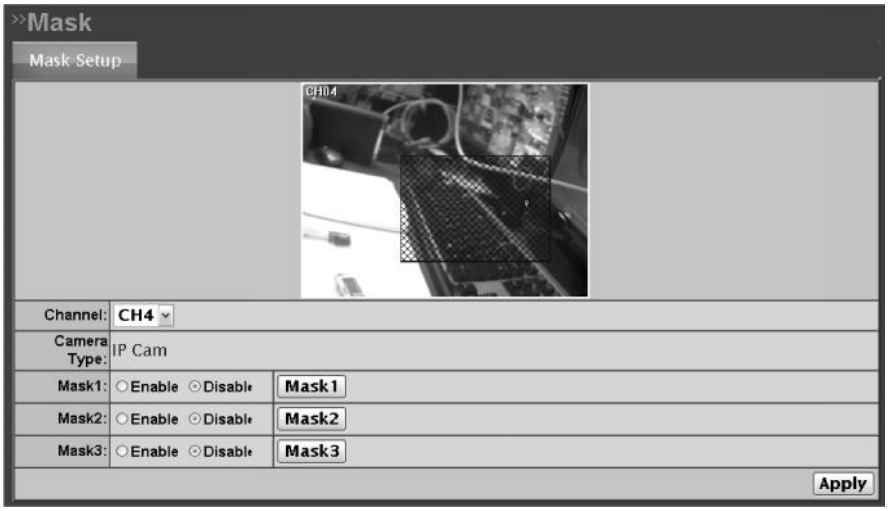
B-5. Camera – Mask Setup

Analog Camera:



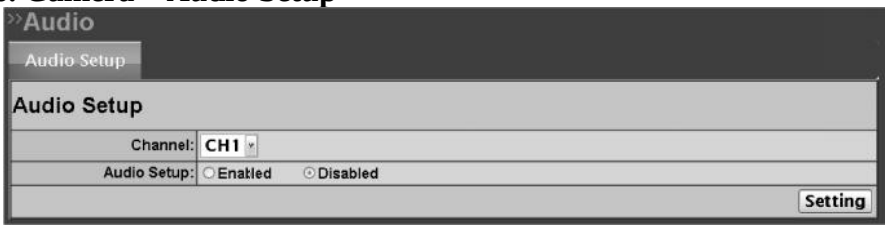
Enable mask function, and drag on the screen the mask area. Decide the mask color. The area will be covered with selected color on live screen and playback video.

IP Camera:



Enable mask function, and drag on the screen the mask area. You can setup three mask area. The area will be covered with black on live screen and playback video.

B-6. Camera – Audio Setup



Select the channel, and enable or disable the audio recording. No sound will be recorded in the playback video of the channel that audio setup is not enabled. It supports at most 4CH audio recording.

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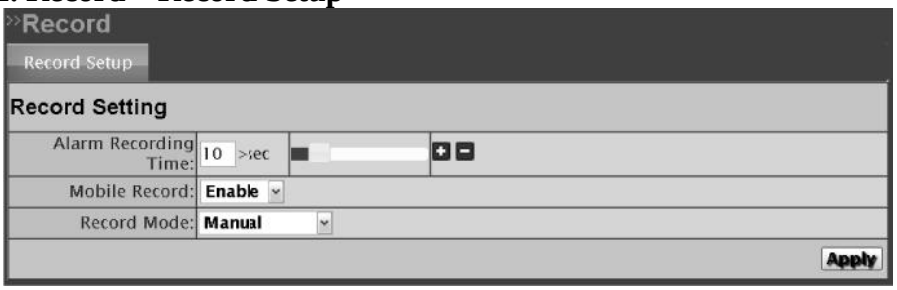
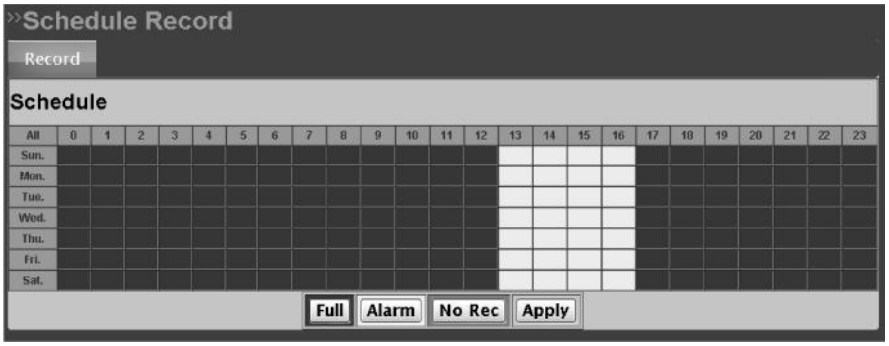
C-1. Record – Record Setup



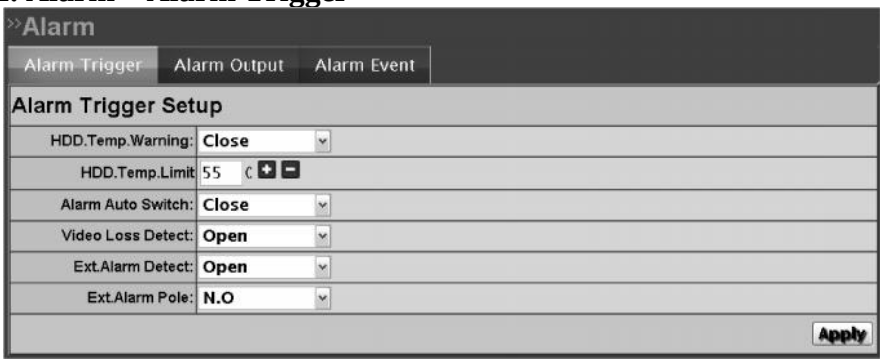
Alarm Recording Time: When an event happens, the DVR can record the video at event timepoint, and send it to mail or FTP. Adjust the recording video length.
Mobile Record: Enable it, and DVR will record the streaming for mobile viewing, so that you can view playback video on mobile phone.
Record Mode: Manual, Alarm-trigger, or schedule recording**.**

C-2. Record – Schedule Record



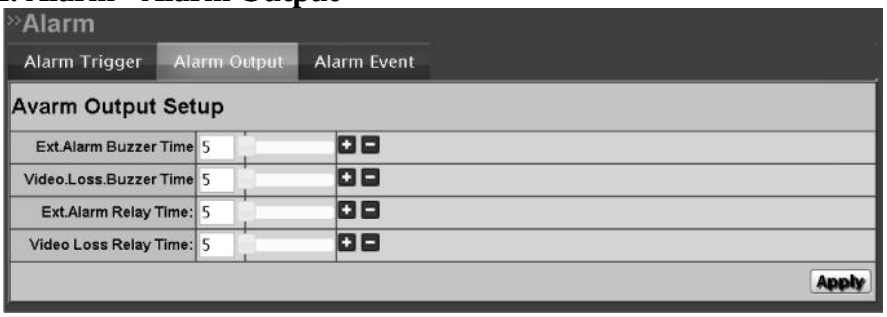
Select the tag on the bottom of calendar, and click on the calendar to draw color. Red stands for full recording, yellow stands for alarm triggering recording, and green stands for no recording. Click “Apply”. If you select “Schedule” in record mode option, the DVR will records video as this schedule.

D-1. Alarm – Alarm Trigger



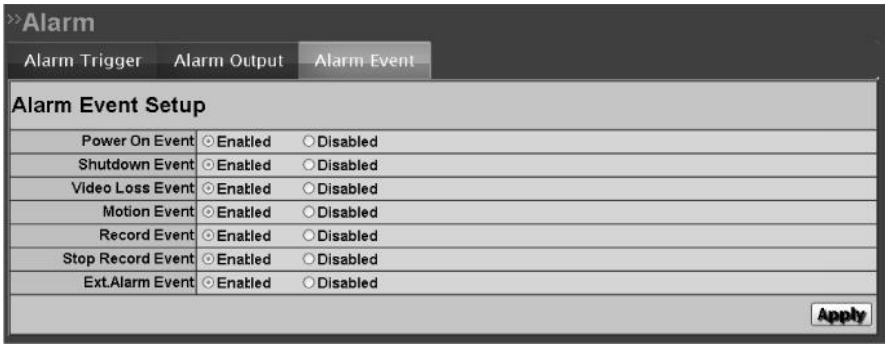
HDD. Temp. Warning: Enable it to make DVR alarm when the HDD temperature is higher than the temperature the user sets.
Alarm Auto Switch: Select to switch to split screen or single channel when motion detection happens.
Video Loss Detect: Enable it to make DVR alarm when camera is disconnected and video is lost.
Ext. Alarm Detect: Enable it to make DVR alarm when external alarm is triggered.
Ext. Alarm Pole: Normally open or normally closed. Select as the external device you connect.

D-2. Alarm - Alarm Output



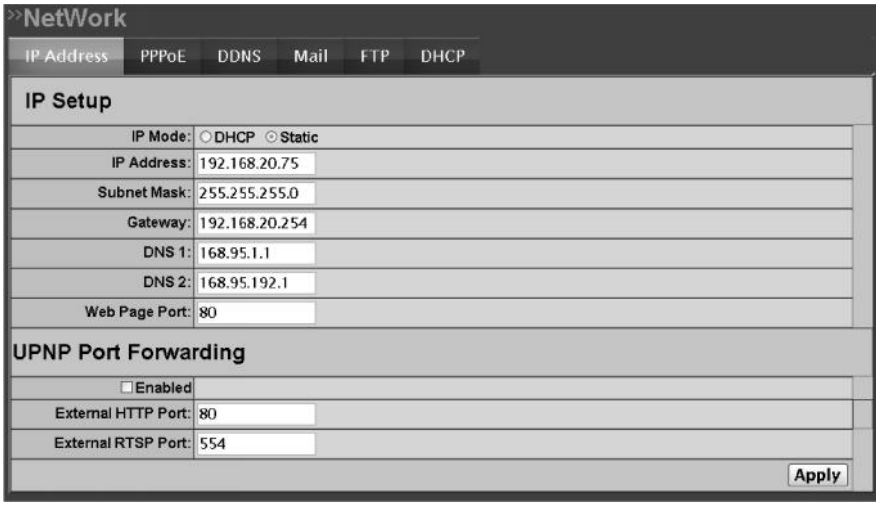
Adjust the buzzer sounding time and relay triggering time when external alarm is triggered or video loss happens.

D-3. Alarm – Alarm Event



When the events happen, the event log will be recorded in the event list. Enable the event item that you want to record in the event list.

E-1. Ethernet – IP Address



IP Setup: Set up the DVR IP information. Select DHCP to get IP address from DHCP server or select Static to fill in the IP address manually.
UPnP Port Forwarding: When the DVR is under a router, you can use port forwarding to allow the WAN connection. Fill in the http port and rtsp port and check your router setting.

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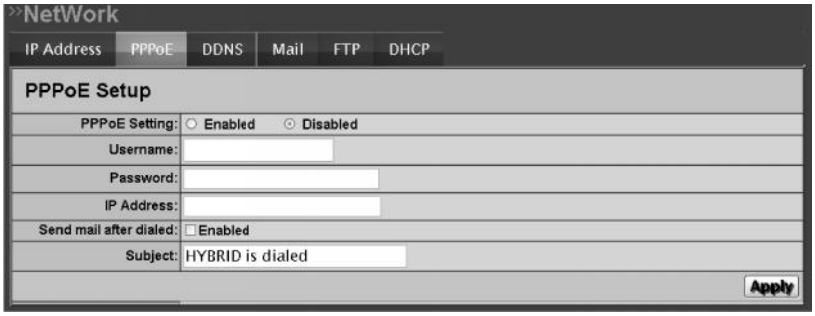
E-2. Ethernet – PPPoE



To use PPPoE, fill in the username and password of your ADSL account. The IP address will be displayed in “IP address” column after PPPoE is dialed successfully. If you enable the option “send mail after dialed”, DVR will send mail to your mail account after PPPoE is dialed successfully. “Subject” is the subject of mail.

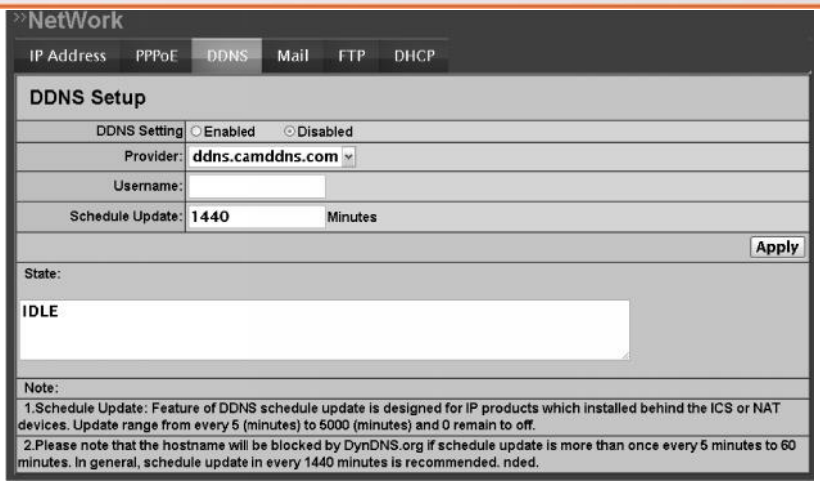
E-3. Ethernet – DDNS

Some DDNS provider requires users to apply for an account before using their DDNS service, for example, dyndns.org. If you select dyndns.org, you should go to their website, and apply with your username and password, the website will return with a hostname to you.

NetWork
IP Address
PPPoE
DDNS
Mail
FTP
DHCP
DDNS Setup
DDNS Setting: Enabled Disabled
Provider: dyndns.org
Hostname:
Username:
Password:
Schedule Update: 1440 Minutes
Apply
State:
IDLE
Note:
1.Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.
2.Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended. nded.

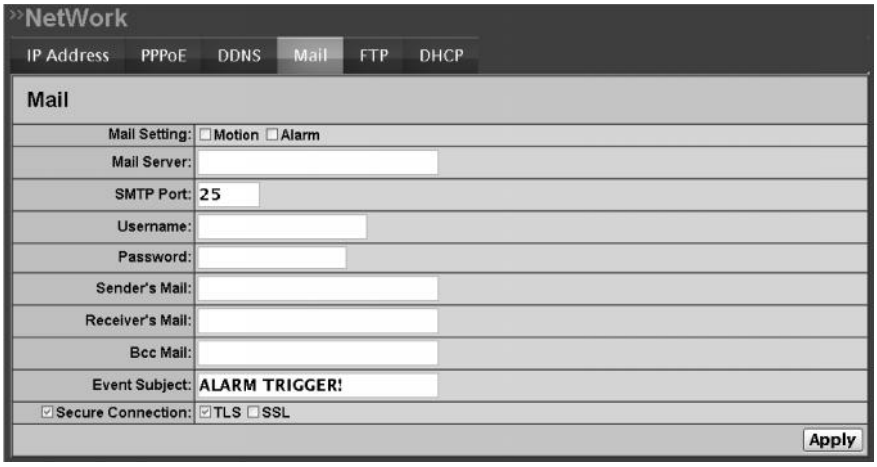
Fill in the hostname, username, and password that you applied to dyndns.org, and give the update time. After clicking “Apply”, check the state to see if you apply DDNS successfully. The DDNS address should be displayed in state column.

Some DDNS provider do not require users to apply for an account before using their DDNS service, for example, ddns.camddns.com. If you select ddns.camddns.com, please key in the username as you want.


NetWork
IP Address
PPPoE
DDNS
Mail
FTP
DHCP
DDNS Setup
DDNS Setting: Enabled Disabled
Provider: ddns.camddns.com
Username:
Schedule Update: 1440 Minutes
Apply
State:
IDLE
Note:
1.Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.
2.Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended. nded.

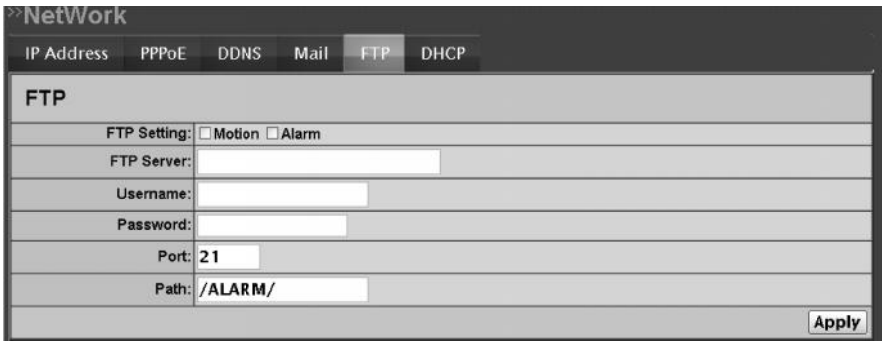
Fill in the username that you want, and give the update time. After clicking “Apply”, check the state to see if you apply DDNS successfully. The DDNS address should be displayed in state column.

E-4. Ethernet – Mail



Tick “Alarm” to send video to mail when external alarm is triggered. Tick “Motion” to send video to mail when motion detection is triggered.
Fill in the mail server information, including mail server address, SMTP port, username, and password. If the server asks for secure connection, select TLS or SSL connection way.
Then, fill in the sender and receiver’s mail address and mail subject.

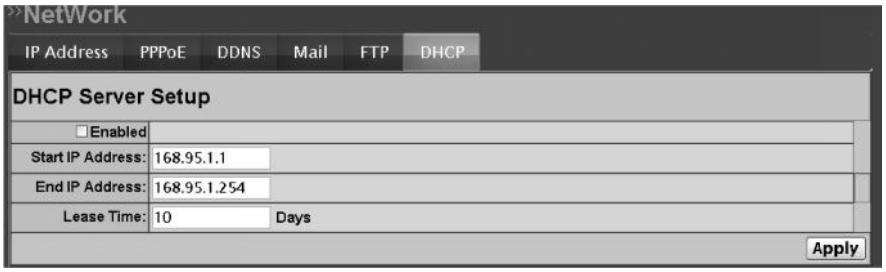
E-5. Ethernet – FTP



Tick “Alarm” to upload video to FTP when external alarm is triggered. Tick “Motion” to upload video to FTP when motion detection is triggered.
Fill in the FTP server information including the server address, FTP data port,

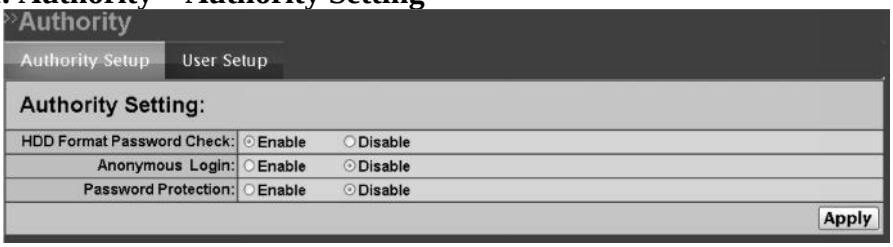
username, and password. Give the path that you want to save the video.

E-6. Ethernet – DHCP



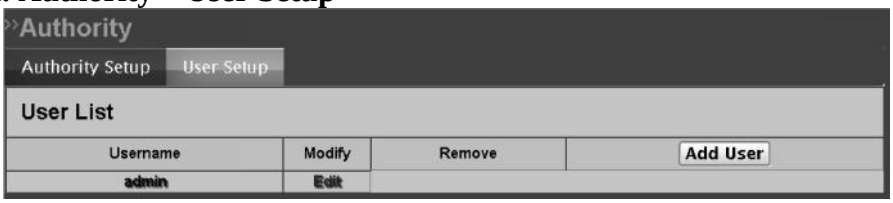
When the function is enabled, the DVR is as an DHCP server and able to assign IP address to IP camera. Give the Start IP and End IP for DHCP. Key in lease time here to decide the frequency that the IP address is renewed.

F-1. Authority – Authority Setting

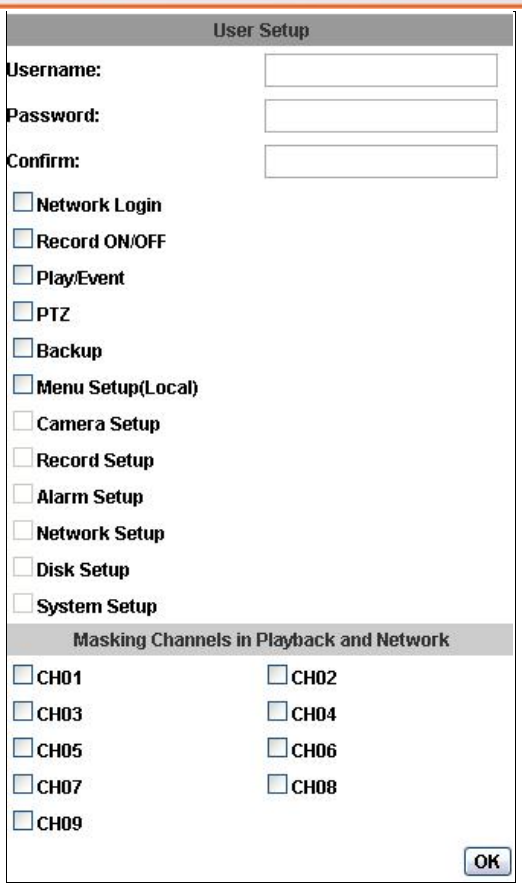


HDD Format Password Check: Enable the option, then DVR will ask for password when users want to format HDD.
Anonymous Login: Enable the option, then user can access the DVR via web browser and watch live screen without password. Disable the function, then password is necessary to access the DVR.
Password Protection: Enable the option, then user has to log in to operate the local NVR.

F-2. Authority – User Setup



Add User: In the pop up window, set up the username and password for the new user. The administrator can give authority to the new user by tick at the choice below. (Ex. Ticking at “PTZ” allows the new user to control the PTZ). In “Masking Channels in Playback and Network”, you can tick those channels that you don’t want to show to this user. This user will not see live view or playback video of that channel.



Modify: Click “Edit”, and fill in username and password to edit the user authentication or password.
Remove: Click “Remove” to remove the user.

G-1. Disk – Disk Setup

Overwrite Mode: Enable the function, and the data will be overwritten after the HDD is full.
Hard Disk Full Warning: When the HDD space is smaller the setting, The buzzer will sound to remind users.
Auto Deletion: Select “ON”, then on the playback list, users cannot find the recording data that is older than the reserve day.
Reserve Day: Setup the reserve day between 1~30 days.

G-2. Disk – Disk Information

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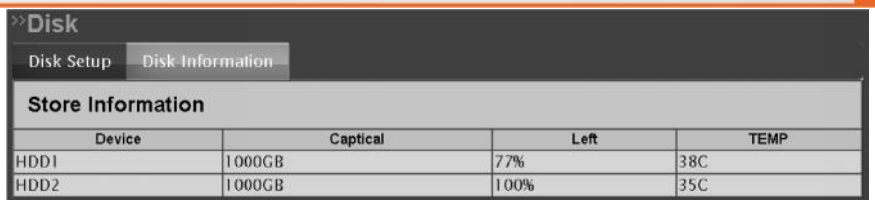

It shows HDD information of DVR.

H-1. Player

Click the button to download D6Viewer, the DVR recording file player.

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APPENDIX A: RECORDING TIME LAPSE (HOURS)

2TB				UNIT：Hours
IMAGE QUALITY (Mbps)	LOW (0.25M)	MEDIUM (0.5M)	STANDARD (1M)	HIGH (1.5M)
	AVERAGE	AVERAGE	AVERAGE	AVERAGE
16CH	960	480	240	160
4TB				UNIT：Hours
IMAGE QUALITY (Mbps)	LOW (0.25M)	MEDIUM (0.5M)	STANDARD (1M)	HIGH (1.5M)
	AVERAGE	AVERAGE	AVERAGE	AVERAGE
16CH	1920	960	480	320
6TB				UNIT：Hours
IMAGE QUALITY (Mbps)	LOW (0.25M)	MEDIUM (0.5M)	STANDARD (1M)	HIGH (1.5M)
	AVERAGE	AVERAGE	AVERAGE	AVERAGE
16CH	2880	1440	720	480
8TB				UNIT：Hours
IMAGE QUALITY (Mbps)	LOW (0.25M)	MEDIUM (0.5M)	STANDARD (1M)	HIGH (1.5M)
	AVERAGE	AVERAGE	AVERAGE	AVERAGE
16CH	3840	1920	960	640

*** The value is for reference only**

APPENDIX B: HDD COMPATIBLE TABLE

Brand	Model	Capacity	others
SEAGATE	ST380815AS	80 GB	7200 10
	ST3160815AS	160 GB	7200 10
	STM3250820AS	250 GB	7200 10
	ST3250310SV	250GB	SV35.3
	ST3400620AS	400 GB	7200 10
	ST3500320SV	500GB	SV35.3
	ST3500410SV	500GB	SV35.5
	ST3500320AS	500GB	7200 11
	ST3500418AS	500GB	7200 12
	ST3500312CS	500GB	Pipeline HD .2
	ST3750640AS	750 GB	7200 10
	ST3750330AS	750 GB	7200 11
	ST31000333AS	1TB	7200 11
	ST31000340AS	1TB	7200 11
	ST31000340NS	1TB	Barracuda ES.2
	ST31000340SV	1TB	SV35.3
	ST31000322CS	1TB	Pipeline HD .2
	ST31000525SV	1TB	SV35.5
	ST31000524AS	1TB SATA3	7200 12
	ST1500DL003	1.5TB SATA3	Barracuda LP
	ST31500341AS	1.5TB	7200 11
	ST32000542AS	2TB	Barracuda LP
	ST3320620AS	320 GB	7200
	ST3500413AS	500GB	7200
	ST3500320NS	500GB	7200
WD	WD1600AAJS	160 GB	7200 CB
	WD2500AAKS	250 GB	7200 CB
	WD2500AVVS	250 GB	7200 GP
	WD3200AVVS-73L2B0	320GB	7200 GP
	WD5000AACS	500 GB	7200 GP
	WD5000AVVS	500 GB	7200 GP
	WD5000AAKS	500GB	7200 CB

	WD5002ABYS	500GB	7200 RE
WD	WD5000AAKX	500GB SATA3	Caviar Blue
	WD5000AUDX	500GB SATA3	Green Power
	WD6400AAKS	640 GB	7200 BLUE
	WD6400AVVS	640 GB	7200 GP
	WD7500AACS	750GB	7200 GP
	WD7500AVVS	750GB	7200 GP
	WD10EACS	1TB	7200 GP
	WD10EADS	1TB	Caviar Green
	WD10EVDS	1TB	Green Power
	WD10EVVS	1TB	7200 GP
	WD10EARS	1TB	Caviar Green
	WD10EALX	1TB SATA3	Caviar Blue
	WD10EURX	1TB SATA3	Green Power
	WD15EADS	1.5TB	7200 GP
	WD15EARS	1.5TB	7200 GP
	WD15EURS	1.5TB	7200 GP
	WD5000AVDS-63U7B0	1.5TB	7200 GP
	WD15EVDS	1.5TB	7200 GP
	WD20EADS	2.0TB	7200 GP
	WD20EVDS-63T3B0	2.0TB	7200 GP
	WD20EARS	2.0TB	Caviar Green
	WD20EURS	2.0TB	7200 GP
	WD30EURS	3TB	CE-GP
	WD30EZRX	3TB	7200
HITACHI	HDS721616PLA380	160 GB	7200
	HDT725025VLA380	250 GB	7200
	HDT725032VLA360	320 GB	7200
	HDP725050GLA360	500 GB	7200
	HCP725050GLA380	500GB	7200
	HDT721010SLA360	1TB	7200
	HDS721010CLA332	1TB	7200
	HDS722020ALA330	2TB	7200
	HDS721050CLA362	500GB	7200

APPENDIX C: ERROR MESSAGE LIST

ERROR MESSAGE	ERROR STATUS & REASON	NOTE
DISK ACCESS ERROR!	H.D.D. Data structure Un-normal. Data does not record into HYBRID DVR or bad sector on HYBRID DVR H.D.D. Please install another H.D.D. and perform the record again.	
UPDATE FILE ERROR!	Please re-download the update file and update again.	
FIRMWARE UPGRADE FAILED	Please reboot the HYBRID DVR and upgrade the firmware. Please send the HYBRID DVR back to repair when HYBRID DVR is disability.	
MEDIA ACCESS FAIL!	The USB file format is incorrect (Please format the pen drive to FAT32) or Pen Drive is setup to ONLY READ mode (Please annul ONLY READ mode) when reserve the data by using Pen Drive. The data cannot be burn into CD/DVD disc. Please change another CD/DVD disc and backup the file in CD/DVD disc storage.	
NO FILE!	There is no upgrade file within Pen Drive or the name of upgrade file does not correspond with HYBRID DVR format. Please adjust the upgrade file name based on the following information. 16CH -> UpdateR.bin 08CH -> Update8.bin 04CH -> Update4.bin	
USB DEVICE NOT FOUND NO USB	Pen Drive undetected. Please Unplug the Pen Drive and plug it again.	
BACKUP START TIME ERROR	Backup start time error.	
BACKUPEND TIME ERROR	Backup end time error.	
DISK ERROR	The data cannot be burn into CD/DVD disc. Please change another CD/DVD disc and backup the file.	
FAN FAILED	Fan Error Warning.	
NO LOG DATA	No Events Record.	
SCHEDULE RECORD	The condition is caused by trying to stop recording when perform the schedule record. Please setup the record to manual mode and then stop the record.	

PLEASE SELECT ONE CAMERA	The message will be shown while using the ZOOM function under split screen condition. Please switch the screen into full screen mode and then operate the ZOOM function.	

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